



Archerburn!



Manuscript Lectures
on
Materia Medica
by

Dr J. S. Barton M.D.
Professor of M. Medica
Botany & Natural
History in the
University of Limerick

Nov^r 28^{mo} 1797

No. 1.

Lecture 1st. -

Introductory -

Books recommended -

Cullen's. old Edition - M. Mead

Dr. Astley's Edit. of Linnæus: M. M.

(1)

Lecture 2nd. Nov^r 28th

History of M.M.

Lecture 3rd. - 30th

History continued -

The study of Chemistry is certainly of the highest importance to the study of M.M.

Botanical affinity or analogy is also necessary for investigating the properties of vegetables -

- Distillation -

Tests to distinguish the nature of plants - 1. Lenses - 2. Acids - from these little uncertainty can be acquired - 3. Boiling -

Lecture 4th. Dec^r 1st

Plan to be pursued in a course of Lectures on M.M.

In Cullen's arrangement of vegetables is here often deficient -

M.M. divided in M.M.
elementary ^{& medicinal} - - Cullen's here

i.e. is sat.

is good - I shall lay great
 attention to Aliments -
 my aliments such substances
 afford nourishment -
 Gullen says is nutritious
 parts of Vegetal: acids
 in acids - sugar & oil -
 his ideas are not chimeri-
 cal - acids are a necessary
 ingredient in animal
 fluid - says Gullen - Gullen says
 if mineral acids ~~do~~ not enter
 in because they do not enter
 if necessary - he is wrong - I think
 that acids, I mean oxygen
 in them are essentially necessary
 to is support of good health -
 digestion is ~~not~~ carried on by
 no fermentation, as would
 by Thallazani, Hunter & but
 by gastric fluid - acids
 produced in digestion, are
 owing to it & hence not going
 on properly - I do not mean
 it is whole of process of digestion

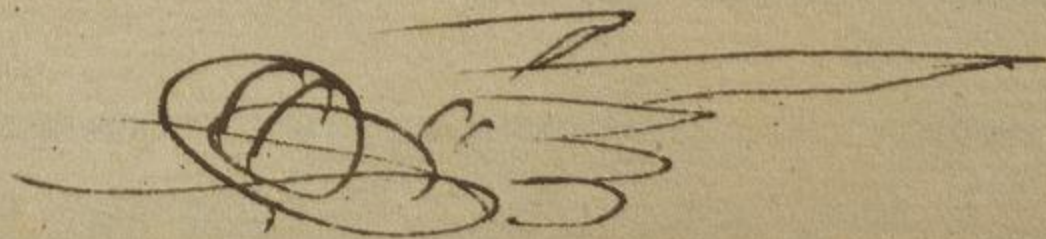
(3)
is carried on by is a series of
of gastric juice -

2. Sugar is a second kind
noticed by Cullen - Sugar is
one of the most nutritious sub-
stances in use - Therefore those
entirely most nourishing in-
to which most saccharine mat-
ter enter - First not only afford
nourishment but strength -

Fermentous substances similar
to saccharine - A Gent: used for
his diet bread, butter, and sugar
- he lived to an old age without
disease and died of Plethora -

The weakened state from &
is restored by sugar - Sugar
is nourishment for Horns &

Sugar is hurtful to the teeth
owing to it sticking to the teeth
and thus undergoing the ac-
tual fermentation - however
this is not so hurtful as supposed -



(4)
Lecture - 5th Dec. 4.

Experiments prove the anti-
cancer power of sugar. - real
we sprinkled with sugar and
misericord by sugar. - Lenny
is unknown. when sugar is
in much use. - Volney says
Lenny increased in Denmark
it disappeared from the use
of coffee by sugar it can
be cured. - Sugar useful in ma-
lignant fever. - Dr. Stark saw
use of sugar, Lf. Lenny
cured him. - Sugar an Anthel-
mentia. - It destroys leech
worms. - It destroys frogs when
sprinkled on them or convey-
ed. - It kills Lizards. - It kills
Pidgeon. - It kills Hens. Spar-
rows are not affected by it. -
Quadrupeds not affected by it. -
it has an immense range thro
the vegetable world. - In some

The labors of Chemistry could not detect it - The process of obtaining sugar is express the juice - mix it with a saturated solution of Lime - heat it and cool it and the sugar crystallizes - Sugar found in animal as well as vegetable world - from Milk - from Urine of humans laboring under Diabetes - Oils contain a species of sugar - Animal sugar different from vegetable in some respects -

3. Oil - Oily vegetables are very nutritious - according to authors - It enters into the animal blood - is an important part of that fluid - It is mixed with Chyle before absorbed by lacteals - Oil does not enter into the blood at least separately - is inti-

(6)

materially mixed - Torpidity in animals is entirely accidental - it depends on climate - Torpid animals have more - discharge of feces - and circulation goes on - They all take in some nutritive substances - The fat in their digestions supports them - These three principles - acids - oil & sugar, are not the only substances which afford nourishment -

Lecture 6th. Dec. 5th.

acids - oil & sugar are not the only nutriment - Mucilage or Gluten is certainly very nutritious - Gums are also nutritious - Dr. Hermann & I -

Gum: arabic: is of support of many - Gums are all mixed with water in vegetables - Dr. Hahn & myself supported a child some months by this Gum dissolved in water -

These are nutritious in no
 fashion to sugar, acid & oil
 they contain, - says Dr. Bullen -

Calcareous Earth I am inclined
 to think is also nutritious - as
 also is ^{the} Calc Phosphate or ^{the}
 Phosphate of Lime - these two
 substances are in my opinion
 an essential ingredient in ^{the}
 animal blood - Some think
 lime entirely an calcareous that
 is - Calcareous earth is an origi-
 nal substance -

Indivisible Aliments -

The seeds of vegetables -

I. Cereales - they are 4th differ-
 ent kinds of ^{Graminae} ~~seeds~~ used in
 food - as wheat - Maize &c.

They contain sugar. oil. & ^{of farinaceous} matter -

1. Wheat. *triticum hibernum*
 of Linnaeus - This is a cereal grain to
 suppose ^{the} oil wholly changes
 its nature of is different Graminae.

1. Wheat meal contains 3 different
 + farina larger amounts -

Parts - 1. Starchy part - when
 dried it resembles horn - tis in-
 soluble in water & spirit of Wine
 It contains Ammoniacal salt or
 Vol. alk. - tis soluble in Urea-
 gas - 2. Cinnabazious part - Starch.
 3. Saccharine part - tis in-
 its properties like sugar -

if Starchy part exists in all is
 species of Cerealia - they give strength

Lecture 7th. Dec. 7th mo.

Fermentous matter fermented &
 formed into bread is in my opi-
 nion the most wholesome - Un-
 fermented matters less noxious Ith
 have hitherto been supposed - It
 undoubtedly will be injurious
 to dyspeptic stomachs - Children
 use bread which is unfermented -
 The Chinese & Japanese live en-
 tirely on unfermented Rice -
 Ancient bread is unfermented -

* Materia vegeto-Animalis.

2. Rye.

it belongs to Gramina - Rye meal sweetish taste - mixed in water it readily undergoes a acetous fermentation - it is extremely nutritious - it is an improper ^{food} for weak stomachs for those troubled with Cardialgia - it is good in certain habits I know a Physician who has acquired great reputation by his scribbling - this substance in certain habits - it did more ⁱⁿ medicine - An ardent spirit is obtained from it - Rye is subject to a disease which renders it unwholesome - Rye contains ardent spirit - oil - ~~essence~~ Gas - & alkali -

3. Barley.

It contains an amilaceous part of an ash color - it is in patients of cold - it matures a plentiful crop in 58 days - Its saccharine part being quickly evolved is in reason it is so frequently in making Beer - It has been supposed to contain no vegeto materia - animalis -

It is certainly nourishing - not so much as $\frac{1}{2}$ others -

4. Pot. Mel. - one half is amni-
lous matter - It is not destitute
of nourishment - Dr. Cullen is of
same opinion - (vide Cullen) -

5. Rice - *Oryza sativa* of Linnæus -
It is much an aliment in $\frac{1}{2}$ East In-
dies - &c. - It cannot well be made
into bread - It has been said to be dy-
scuss of digestion - It is certainly a
very nutritious article - It has been
said to be injurious to $\frac{1}{2}$ Eyes - It is
in my opinion owing to the hot
vapour from them - Also is prepa-
red from Rice - called Sacchi -

6. Maize - Indian Corn

It has a considerable quantity
of saccharine matter - (Dr. Cullen, wrong -)
Green Corn causes $\frac{1}{2}$ generation of
a worm - The Indians use history
ashes with it - They use green
corn - Their Intestines cannot be
used for Saccharine - being despera-
tes to a peculiar ~~man~~ -

(11)

Lecture 6th Dec^r 8th mo

Maize - is extremely nutriti-
ous - It was long y^e common
Bread of our common Country.
An intoxicating ^{drink} was obtained
from y^e Maize - called "y^e Wine of the
Maize" long before Europeans had
any intercourse with y^e Nations
of America. They get drunk sooner
on it than ~~any~~ the Wine of y^e Grape.
They also prepared an intoxicating
drink from several plants

7. Millet - ... it contains sugar
but little arsenic

Another Class.

1. Buck-wheat. - is nourishing
2. Sago. - made from the diffe-
rent Palm Trees. That is from their
Pith - is insoluble in oil & sh^t.
Wine - is nutritious - is pro-
per for those stomachs that are
weak - good in Consumption -
3. Sallap. prepared from y^e
Archie powder of

Salad contains a greater quantity of nutriment in it smaller Bulk. It contains vegetable and animal matter. It is supposed to be good in Dysentery.

4. Potatoes. a species of the Solanum tuberosum. It was unknown till it was discovered in America. It contains nutritive matter. The red color in it is owing to an acid.

5. Chestnut. It contains sugar and is saccharous. It is said to be useful in Diarrhoea. It is the bread of many. It does not produce disease.

6. Wild Potatoes. It contains a large quantity of amylaceous matter.

II. Leguminous Seeds.

Dr. Fardoe says they are unfit for the food of man.

They contain a more unctuous matter than is Secale. Amylaceous matter is produced from

them - saccharine matter and a
larger quantity of oil - altho' they are
highly nutritious yet they are more
difficultly soluble - Some of them
will kill animals by producing
Flatulency -

Lecture 9th. Dec. 1844

III. Oily Nuts - Nuts Oleosa.

I mean those in which is oil
is in large proportion - The oil
may be obtained by Expression or
Heat alone - The oil has been
supposed to be detached - It is not
so - tho' it is some have separated -

These seeds are considerably
nutritious - tho' not well for
well with Cereales as Dr Bullen
supposes - They are difficult of
digestion -

1. Cocoa Nut - very oily -

2. Chocolate - is prepared from
a plant - called Cacao by Linnaeus
They were used as money by Mex-
icans - is highly nutritious - is
recommended in Phthisis Pulmonalis

Taken. &c. - Those in Hithoria Ac-
tits ought not to use it. - It is cer-
tainly improper - It is imbrued
in Hemorrhoids. in Hemorrhoids.
as these means 19 out of 20 I
re treated by Evacuants - Hemor-
rhoids occur often in Yellow fever -
An ail is obtained from it -

3. Poppy - Pappaver. - Its seeds
now. - Tho' this quality is often
destroyed by heat & has frequent-
ly been used in diet by the Ro-
mans - Oj of seeds expressed
will afford 3iv drachms of oil.

4. Cucurbitaceous Seeds.

Cucumbers - Melons -

. They are not re-
frigerating - The oil similar to
is oil of almonds - Vegetables
purified -

IV. Milk - I shall speak of it as
afforded from Cows - Goats - Ases
Mares - Ewes & Mares -
When drawn it appears of a

homogeneous nature - when
standing some they separate
1. Cream or is oily part of
Milk. This is first to be seen
when separating it takes place
sooner when exposed to air. Atmos-
phere - more cream may be ob-
tained by frequently skimming -
agitation produces separation -
Milk exposed to air becomes
acid - and forms itself into one
mass - Heat. renders cold retards
Coagulation - Lightning coagu-
lates it - A great proportion of
Cream is in a great degree ^{owing} to
is food of animals - is proba-
bly arising in great degree to its
temperature. and color of its
Hair - Young animals do not afford
so much Cream as older - Cream
contains some Curd. some Whey -
The formation of Butter is obtained
by agitation alone -
2. Oily Part. it resembles is oily
part of vegetables - This is Butter in
human. Butter & all animal oil

will become rancid. Butter is
first ^{of} better. Milk is left subject
Rancidity. Acidly assists rancidity -
as also does mucilaginous Matter.

Rancidity may be prevented by
is addition of Nitre and Sugar -
it may be tested ^{by} heating in
alcohol - The acid is in de-
lucic acid. This acid gives a
red color. It effervesces with
carbonate of Lime - it unites to
G. & Silver - This is same acid we
discover in oil of all animals -

2. Coagulable Part - it may be
produced quickly by Rennet. It was
supposed to depend upon is acid
in is stomach of is calf. This not
so - as proved by Dr. Young Edin.

Professor Shaver says is coagulable
part may be separated by is vege-
table acids - tho' it will not sep-
arate in human's Milk unless their
diet has been vegetable - Lin.

can coagulate Sheep's Milk -
vegetable acids coagulate all grammurous
animal's Milk - &c -

Lecture 10 H. Dec. 12 H. 97-

The alkaline salts decompose the
coagulable part - Different kinds of
Chese arising entirely to the quali-
ty of the Milk - Alcohol & Heat do
not act upon the coagulable part
in the same manner as action of the
acids - Chese is very much of an
animal nature - There is vola-
tile Alkal: or ammoniacal salt
in the Chese - Chese likewise suffers
in the manner of making - as sal-
ting - drying &c - By heat it gives
out Carbonic acid and vol: Alkali -
.....
Warm water hardens it - The
alkaline solutions decompose it -

3. Serum or Whey - It contains
a large quantity of Water -

- In the evaporation of whey
& Curd milk & whey is nearly
the same - Whey when separated
contains still a little oil & coagu-
lable - When it separates by itself
it is clearer of the two other parts -
None enters into whey & caseine
matter - is obtained by

separating is Whey - evaporating
& drying - This sugar is same
what exists. This sugar of Milk
has for its base two acids -

The Milk from all animals
is nearly the same - An ac-
cidic spirit is obtained from
Mare's Milk - Heat - Sealing &
agitation are necessary to the
fermentation of milk -

Quercus - Goats - Cows & Asps - Mares -
Mammals -

The milk of Quercus contains $\frac{1}{2}$ largest
quantity of $\frac{1}{2}$ caseous part - Goats
next - $\frac{1}{2}$ - Only part created in
Quercus - next in Cows & $\frac{1}{2}$ - The Lactum
is larger in Mammals $\frac{1}{2}$ Mares &
Asps -

Milk is produced in $\frac{1}{2}$ fe-
male of $\frac{1}{2}$ human kind - Some
suppose $\frac{1}{2}$ $\frac{1}{2}$ Chyle from its simi-
larity to $\frac{1}{2}$ Milk is immediately
^{conveyed} ~~carried~~ to the breast - however
plausible this may be I can-
not adopt it - Chyle has been found
in $\frac{1}{2}$ blood, same way - I think tis
nothing than fat -

Chyle goes thro' of subclavian vein
 & is conveyed to the Heart - where it
 intimately mingles with the Blood -
 Milk I think therefore is not the
 same as the Chyle previously - tho'
 I think it in a great degree formed
 from it - A mass of vegetables from
vegetables are found in Chyle &
 Milk - Mothers taking Nurses have been
 said to nurse their Children - This it
 will do in my opinion provided
 the Nurse remains some time in
 the Intestines - but should it quickly
 pass her - the Child will not be
 affected - I saw a strong Nurse to
 a woman combined with Lau-
 damum - The Nurse had no Effect
 until 16 Hours - in 6 or 7 the Child
 was severely nursed -- Dr. Cooper
 & G. Salivation & Child - Milk is an
 extremely aqueous fluid - its consi-
 stently considerably increased
 in quantity by drinking fluid
 matters - Milk is extracted by Ex-
 cretion from the Blood - vide Dr. Cullen.
 Dr. Darwin's Opinion - on the Saccha-
 rin part - The saccharine matter
 is Diabetic

of Milk is produced from ⁱⁿ ^{the} ^{vegetables} before fermentation is ⁱⁿ ^{the} ^{blood}. - Grasshopper animal's milk affords much saccharine matter. - Carnivorous animals little or none -

Lecture 11th. Dec. 14th mo 1797.

Colour of milk sometimes colored according to the vegetables eaten - Madder renders it - Garlic gives it a color - Dr. McLeary says Milk & Bile are in most analogous.

Milk is in proper nourishing matter for in class mammalia, in early life - Porcupines, tis said, furnish an exception - Dr. Cullen says those who continue long at it breast are unhealthy - Dr. Haller thinks otherwise - Dr. Haller's theorem most probable. The Indian Children continue 2 years at it breast - they are perfectly healthy -

Indian children in time do
not walk so soon; but
as owing to the manner
they were born - Long sucking
does not dispose to Rickets -

The time of continuing it
should at least be a sub-
ject attended with great
difficulty - It is one highly
probable they may take re-
gular aliment about the
6 or 7 Month - - - - -

Milk is a antiscorbutic medi-
cine in cases of debility -

As it readily passes & excretes -
and it is unable to produce
Rickets - Scrophulae, a disease
of the absorbent system - is re-
current - is more common
in some than other Countries -
Scrophulae more common among
Indians - more common
in England - according to Dr.
Beddoes owing to ^{dys-} ~~super-~~ oxygen-
ated air - It is said to be pro-
ducing in consumption - is an

inflammatory disease. The de-
 clining remedies first used
 by Dr. Damer & followed by
 Dr. Rush. Therefore a higher
 still living life heating - After
 milk supposed to be more
 proper - English Receipt - "After
 milk use after remedies" -

Cullen says a milk diet will
 prevent a fit of Gout - tis not
 so - In small-pox when a
 symptomatic diarrhoea comes
 it has been said to be a good
 remedy. - The Cornish

vine prepared from Mares
 Milk - Dr. Rees says is good in
 debilitated Asthma - Tartar use
 it as a restoring diet - tis con-
 sical & Lonic - according to Rees -
 In Hectic fever - Cow's milk
 gives a venous spirit by
 fermentation, says Dr. Pallas -

(21)
Lecture 12th. Dec. 18mo

2. Materia Medica Medicamina -

It is difficult to make a
proper arrangement -

1. Astringents. Dr. Cullen
says they produce a constric-
tion & condensation of the
fluids & solids - he thinks they
act chemically - I think not -
Medicines have a very es-
sential different effect upon
dead and living matter - for
instance the Acid immer-
sed in $\frac{1}{2}$ Oak - is different in
living matter - As long as it
animal lives astringents have
no chemical effect. W. Moore
M. Med. - his Experiments on Oak De-
coction - Astringents & Tonics I
may act as Stimuli - Oak solu-
tion is given to produce a
diaphoresis - Persons should be
cautious in its administration

Of these medicines - if they be
 like as I do, that they act thro
 the medium of the Nerves, - to
 different parts of the Body -

They are also carried to different
 parts of a System by a Circula-
 tion sometimes, as Maclede -

These ~~same~~ ^{similar on} astringents have an
 operation of vegetable as ani-
 mal fibres - As those that are
 wounded and need a cure
 are soon stopped by a appli-
 cation of these Medicines -

They are, many say, composed
 of acids and Earth - All astring-
 ents in certain class are
 purgative - which proves my
 opinion, & they are stimulants -
 Chemists have given the combi-
 nation more perfectly - They
 consist of Gallic Acid & Alumina -

Astringents, I think are more
 successful given in this

substances - as they are acted upon
 more powerfully by a gastric
 juice - should be therefore mixed
 with some *Sp. Vini* or some
 more matter - to dissolve of
 numerous principles - Astring-
 ents readily give out their
 virtues to water & Sherburne
 Liquors - The virtues ^{are} given
 out by decoction perfectly -
 Astringents have been recom-
 mended in all states of debility
 - as Cachexia - They have been used
 in Dropsy. They are certainly
 improper in its first stage of
 this disease - as it depends upon
 too much action in the Heart &
 arteries - I have however used it
 Dose in a debile state of the sys-
 tem after it is one of the Latent. The
 the dropsical swellings continu-
 ed as came on with the Paroxysm
 Astringents have been also in
 Hemorrhage - Cullen - Hemorrhage
 of debility are assisted by Astringents

But in certain Hemorrhages they are certainly inadmissible -

They have been used in Dysentery when used in a relaxed state they are certainly proper; but as it often depends upon increased action - they are certainly improper - They have been used in Dysentery - It depends on inflammation of the mucous membrane of the Intestines - they are improper - In Leucorrhoea they are generally successful -

In Diabetes they have been recommended - they often do harm - It depends upon diseased action going on in the Kidneys - It is better remedied by the Linctus - Diabetes depends upon a translocation of Gout to these parts very frequently - personal experience proves it - reflect on it - Sometimes used improperly in mucous discharges from the Uterus - Gout - Gonorrhoea -

Lecture 13th. Dec: 19th mo

They have power of relieving of Calculus — Gallens imagine of these Urac acts by having an attraction for of Acids in of Urine &c. — is not so. — carbonic Acid relieves this Complaint — The strongest friendly is dissolved in of Water and other —

Particular Astringents —

The vegetable kind —

The astringent properly resides in of leaves, sometimes in roots; but more universally in of Bark —

I shall begin with the stronger and descend to of weaker

1. Bark. The Bark is highly astringent — is used in Larding — Gallen has used it in Cacao for inflammations & Intermittents — tarted Acids have been used in Diarrhoea Dysentery — The Germans use it in Erysipelas — it induces a Diaphoresis — this di-

has certainly a connection with
malignant fevers - it appeared
as a prominent symptom
in *Yellow fever* 7-93.
In these cases debilitation is cer-
tainly necessary -

2. Galls. generally formed on
the leaf of oak - Galls were
used in France for Intermittent
fevers - they have an acerb taste
In doses of ʒi or ʒij it moder-
ates violent constriction in the
stomach - It has been used in
flatulency from relaxation - it
does not moderate costiveness.
attend to this Gent: - Dr. Dureau
says all astringents do. An
Injection of the Decoct of Galls
have been used in Piles also
an Ointment in *hemorrhoids*
disseminated - But there are two
kinds of Piles - one depending on
too much, & the other on too little
action - In one kind the vessel is
broken in the impulsion -

(27)
It has been used in Stools by
injection -

3. Gum: Kino. - is a Gum
obtained from a Tree by in-
cision - is a powerful
astringent - It yields its Vir-
tues to the Wine - Kino added
to Pulv: Styracis is a most pow-
erful astringent and are recom-
mended with - is used with Gum
in Lancing of Children - It has been
used internally in Hemorrhages -
I have been disappointed in
Leucorrhoea -

4. Gum: Guttifer - or Terra
Japonica, improperly - It
has been used in Ulcers -

5. Nuc: Nasi. - Pear Pernis -
^{is not} a native of England -

The Leaves produce a Styracis
to & Tongue - It produces a
black color with ~~the~~ Iron -

Physicians have used it very
generally, in Calculus - Dr. Fer-
riar has given it in nephritic
Cases with good Effects -

Uva Ursi 5^{ss} by Green. 3jss ter in
 oil - till all symptoms
 disappear. It has been used it
 in ulcer in of Bladder - in
 Hematuria - In discharges of
 mucus from of Penis -

In these cases it is well
 adapted. I have used it to
^{good effect} ~~in~~ ⁱⁿ ~~an~~ ⁱⁿ long standing
 Gonorrhoea. I recommend it
 to you as valuable remedy
 in some cases of Gonorrhoea -
 W. Bell consults. 3jss ter in
 oil. It is difficult to

explain its Modus Operandi -
 It increases frequency and
 fullness of urine. In larger
 doses it produces nausea -
 It is certainly considerably astri-
 gent - In case of nephritis we
 should particularly attend to
 its connection with of Gout.
 They are often one disease -
 Others have been used in of in
 inflammatory Gout - & as if

Uva Ursi is a better as well as an astringent property. it is in this case serviceable in Gout - I am so much convinced of it that Uva Ursi or Phytolacca should always have it in his shop -

The Japanese who live almost entirely on Tea, which is a better astringent vegetable, I am informed never have Gout - if this tea has been made of the sprouting in a very refractive case, is much corroborated -

Lecture 14 H. Dec. 21st

6. *Geranium* - it grows near this City - is astringent. is used in Cholera - by Dr. Hand. of Lancaster -

7. Alum Root - *Arickia Americana* - used in western country in cancerous cases. is a powerful astringent. Powder of it is applied to sores - was told me as a secret Gentlemen - -

is not to improve - It has
 been used in Diarrhoea. I doubt
 its Effects - as all astringents I
 think do harm in it - as it is
 a sterile serum. 9 out of 10.
 Sanguis Draconis is an inert
 medicinal ingredient its solution
 and renders alum also inert
 by rendering it insoluble -

Alum to Nutmeg has been used
 in Intermentals to better Effects
 than Bark - also wth Canella Alba.
 In Diluvian Fevers Dr. Chalmers
 used has used it with good Ef-
 fects - Externally - it is used in
 Gargles - in Low Throat &c - In
 Hemorrhoids - in inflammation
 of the Eyes it has been found
 powerful - a solution better
 than is coagulated alum -

You will find I have classed this
 as astringents under this head
 than Buller. I do so because I
 class I think more properly under
 it head of Tonics -

2. Tonics -

Dr. Gullen suppresses from
their Effects, they are analogous in
many respects to Astringents -

You will recollect I said if
Astringents were Tonics & Tonics
Stimulants; but I don't say
Tonics are Astringents - I think
Astringents - Tonics &c. may be
classed under a great head of
Stimulants - I believe Dr. Gullen
that all Tonic are Tonics, but
I don't say Tonics are all Tonic^{as is Metcalles 46} -

Tonics are Stimulants to the mo-
ving fibres - they increase the force
of an arterial system - An in-
crease of force of the heart will
bring on a Paroxysm of force.

1. Gentian a powerful Tonic.
used in Intermittents -

Tonic
Others have a peculiar - some
of the most powerful have no
smell - when distilled they
do not often give out oil. They
~~do not appear to have any~~

exaltate irritabile -

One of its most obvious effects
of bitter is, they increase appe-
tite and tone of stomach, in-
creasing digestion. bitters really ob-
serve - but they do not act as re-
solutions in increasing of muscu-
lar action of the stomach to pro-
mote digestion. for I say Digestion
is carried on by gastric juice.

Bitters have been said to re-
move visceral obstructions -
they have also been found
diuretic. sometimes - as I con-
sider all Bitters as Laxants
I do conceive that also all
Laxants may produce di-
uretic Effects - Bitters have been
supposed to produce these Effects
from being blended with astrin-
gents: tis not so. as some - for
instance is Emulsion of Almonds
has produced good Effects - it has
no astringency - They will
excite sweating - they are dia-
phoretic in proportion to their

Stimulating

(34)

properties - As they are Stimu-
" they are imbrued in a febrile
state of system - The doses
no emmenagogue properties -

They have been used as anthel-
mintic. The Santonium has
been found powerfully an-
thelmintic. but it differs res-
pectively of destroying worms dif-
ferent from other properties -

They have been used in Ulcers -
in Gangrene - They have used
in fermentation in swelling, -

Lecture 13. Sun? 26th - 97 -

Some writers say Bitters have
all a Narcotic Power. Haller -
Dr. Cullen says some such Effects
are to be suspected - all Bitters
long used seem to destroy the Tone
of Stomach - Cullen's notion in
some respects true - Dr. Lindsay -
Mr. Graham upon taking of Black Bark
was affected as if he had taken of
some poison - Darker medicines

Structure on of Breast - &c -

They are all essentially endowed
with ~~no~~ noxious Qualities - as
Opium - Lettuce - Bitter almond &c -
Bitter almonds has produced Stiti-
cure - so has calcareous Earth -
we cannot therefore ascribe it
to the Bitter, but to Idiosyncrasy -
Some late Experiments have pro-
ved that noxious Qualities are
not necessarily connected to
Bitters - Bitters have Power of
preventing an Attack of of Gout -
"Gullen says Gout is always connected
with an Atonic state of of Stomach -
without entering into a dispute here
I hold it as a fact. They destroy Tone
of of Stomach" - I don't think with
him that Gout is necessarily con-
nected with Atony of Stomach -

Bitters have in all ages been warmly
recommended in Gout - but this does
not necessarily render them useful -
People in London by taking the Bitters
in Quantities for Gout were cured
in 2 y^{rs} of Hydrops or a Dropsy -
I am Ent. of Opinion that Bitters in
the Gout produce bad Effects as

Congestion in the Brain - The late
 Dr. J. Brown, after ^{with the use of} ~~inventing~~ ^{aided by}
 Gout for two years; died in a
 few hours illness with Apoplexy.
 And those who use Bitters in this
 manner, die of the same sym-
 ptoms. They are therefore Gout: Dis-
 mutants - Are Bitters never of use
 in the cure of Gout? - It is an
 excellent advice by its arguments
 to beware of Bitters after being
 6 or 7 yrs attached with Gout -
 It may be laid down as an Ax-
 iom "That medicines are usefull
 in proportion as they are endowed
 with powers of doing harm -
 Bitters have been used in Calcu-
 lar cases - Author who published
 a dissertation on the use of astringents
 in Gout - was found they were also
 usefull in proportion to their
 Bitterness -

Lecture 16 Th. Decr 28 - 97.

Pharmaceutical treatment.
 - either water or spirits may
 be used to extract the virtues
 of Bitters - The former is prefer-

of Colombo - has little effect -
in substance valuable -

Warm water extracts the vir-
tues better than cold - so that
the goodness of its extract is in
proportion to its temperature -
Dr. Bullen says. what is extract-
ed in the first hour - 24 hours
infusion is sufficient time -
Wine by experiment does not
more powerfully extract the
virtues more than water - it
is however more stimulating
owing to its wine - Dosing
that extract still more pow-
erfully - Decoctions more dis-
agreeable - because they dispi-
cate the agreeable aromatic
and extract more earthy
matter - they are neither in
my opinion as useful nor
as agreeable - I hardly think
with Dr. Bullen $\frac{1}{2}$ by decoction
they are decomposed - Tritura-
tion is another method - it is
a good method - No experiment -

Decoctions, should not be made in open vessels - as the volatile parts are dissipated by heat - A Digestor should be used -

Infusion more agreeable & better than open decoction - The virtues are fewer by extraction with proof spirit or spirit of wine - They extract more powerfully, especially those that have an aromatic flavor - Tinctures by spirits, better - They are to be used as seldom as possible by spirits &c - on account of consequences -

1. Gentian - many species - I shall confine myself to 2, useful - They are all bitter - They are stimulatory - Gentiana lutea - or Yellow Gentian - is one of the most valuable - both water and spirit extract their virtues - better by spirit - They are antiscorbutic - They have been recommended in debility of the stomach & intestines &c -

It excites & appetites -

Elix. Stomachicis: -

℞ orange Peel 3ij

Gentian

The yellow Gentian has like all other bitters been found of service in Gout - It is used in Intermitting fevers - Gentian & Gall or with Tormentil. or Oak Bark. renders it more useful in intermittents - It has been used in Leucophaea - & of it Extract a dose - They have been recommended as antihelmintic -

℞. Amara. resembles it. ℞.

Gentiana composita -

Gentiana Gentiana or *Gentiana*. The Leaves and Roots are used. The Water extract its virtues. water extracts its mucilaginous parts - Lis Antiseptic according to Murray - Gentiana purges powerfully in 3j or 3ij in powder - The Properties of different Bitters are to purge - It has been successfully used in Leucophaea - Gout &c -

N. America *hospes* a member
of this class, whose properties have
not been taken notice of -

2. *Quacía* - *amará* - & *di-*
marcúla - l. of *Quacía* *amará*
is a tree of considerable height.
Bark of it is ^{rather} more powerful, &
of use. It has been used in
Intermittent and continued fevers -
M^r. Long. recommends it in
Dyspepsy & putrid fevers - in dysen-
tery - in fevers from 2j to ʒj
is given - In distichy from
ʒss Dr. Lettman. ʒss in the
3vj - 3j in oil - Sumptuously
in inscriptions should be always
acceded to. The magist. of medi-
cine is retarded by different in-
mular medicines in of same
class. - Chronic dysentery & diar-
rhoea have been relieved with of
Quacía decoction - combined
with Colomby - good -

2. *Quacía* *hemarcúla* - from
St. Domingo - It does not appear to
possess any stringency - It is

a. simple Piller - virtues is
traced better by cold & warm
water - It is used in Dysentery -
not to be used in its early stage -
but in its 3^d stage - Dr. D. Manno
2 or 3 ounces, with 5th ^{drachm} ^{of} Laud:
was used in Dysentery ad-
vanced - Dr. Arch Saunders -
we are informed it has been
used successfully in Cholera -
two drachms and Colic - &c -

3. BULLOCK - called some from
Bruce - It grows where Dysen-
tery continually prevails - Bruce
had in Dysentery - in nature directed
him to take an heaped teaspoon-
full of powdered bark
full, twice a day - he was cured.

This is a simple Piller - consists of
~~rough~~ roughness to its throat -
It has been supposed to be in Cor-
tex Angustura -

Lecture 17th - Dec. 29th mo 97 -

Other Piller -
Minia & the Tribolita -
This caused much Tribol -
It has been used in Gout -

It is a bitter with astringen-
cy - we should not depend
altogether upon its green Virtue
as a test to distinguish Astringen-
cy - Green in Dig it purges &
sometimes vomits - It has
been used successfully in Gout -
It is also used in Nephritis -
Recent Juice is used - a watery
infusion in dry Leucorrhoea has
all its advantages - The recent
juice from 3 to 6 Cups daily -
Professor Burzigi has used it
in all cases of leucorrhoea & Asthena -

2. *Centaurea benedicta* - or
Carduus benedictus - a pure
simple bitter - extracted by
water - It has been used exten-
sively in Cancer - It is useful
in Intermittents - used in
Pleurisy - it is an antiseptic-
tic Emetic -

3. It is an agree-
able bitter - much is consumed
in the medium as other

Stitts. - Lime is a addition of Hops
to malt Liquor in Calculus has
discovered - Dr. Darwin says Stitts
promote digestion by pro-
moting an absorption of Chyle -
He says all drinkers are subject
to Gravel - this contradicted - his
supposed to be owing to the Chi-
re it contains -

4. Faba Indica - or St. Ignace.

This is a most powerful bitter -
this is not a simple bitter - this con-
tains with a considerable quan-
tity of a Narcotic Quality - 3j
killed a dog - It vomits
It has been used in Intermitting
fevers 5^{ij} in 3ij Quater the
in die - 5^{ij} equal in strength
to 3j of C. Peruvian. - Praised
in Chilesay - It produces effects
in animals does more violent
in Dogs than Man -

5. Nux Vomica. - is a drague-
able bitter bark - it contains a
large quantity of Gummans &

resinous narcotic qualities -
 3j. produced a sound sleep in
 days - It is used in Intermitt-
 ents - combined with Gentian -
 - used as ^{an}æthiormentia - Shrivver
 Tincture added to cotton applied
 to hauch discharges worms -

6. Fumaria. an infusion
 evaporated. shows a salt - Dr.
 Cullen has used it in cutaneous
 affections - I have used it in
 Leprosia - 3ij. ⁱⁿ is day is suffi-
 ent. and leaves a good -

7. Colombo. important
 Bitter - native of Asia - not known
 from what vegetable it is procured -
 It is said to be native of America -
 It has a pungent Bitter - It
 antiseptic - It renders innocent
 says Percival - is tried Bile -
 useful therefore says he in
 Cholera &c. - Cullen says it has
 no such exuberant Qualities -

Cullen took 3j. - it increased his
 pulse to 120 - he says it is not the

mustard - it certainly is - it
 kills in Piles &c - In Dysen-
 tery tis most useful in the
 decline of it - no dependence to
 be put on it - Dr. Johnson has
 used it with success in 3j to 3j
 every 3 Hours in Cholera -
 'Tis used in Colic - Dr. Ferrius
 uses it in nausea & vomiting &
 Diarrhoea of Infants - I have
 found it prevent in Paroxysms
 Intermittents. tis most useful
 in weak Patients - useful in Dis-
 tressia -

8. Matricaria Chamomilla
 or true Chamomile - cele-
 brated tonic - employed in
 Intermittents - Flowers ʒ to
 have been used by Hoffman -
 Morton - from 3j to 3j - I use
 with it Opals - It is useful in
 flatulent Colic - in Dysentery; but
 useful in Diarrhoea -

9. Tanacetum - Tansey -
 has a strong smell - been highly

(46)
in Gout. a weak Infusion to
Dose every Morning. it was also
used. It is a powerful Pectoral.
celebrated as *Antihelmentica*.

10. *Artimacea Absinthica* -
or Wormwood. an intense
bitter. It renders bitter is Milk
of Animals & is flesh of Mutton.
On distillation it gives out an
oil. Leaves most powerful
herb. It is said to help an Hae-
ctic Power. as Pain in it. Head
Inflammation Eyes. Lenses
never observed any such Effects -
Infused in Ale, Gullen says intoxi-
cated readily - used in Intermittents
half a Tabledropperful of it mixed
in Ale.

11. *Aristolochia Longa* -
celebrated in Ammoniacum.
Gullen says used to advantageously
in Chlorosis. used in Gout.

Root *A. Longa* -
John Gorton & Co Portland
Powder - Portland Powder has done
miracles - killed hundreds -

Lecture 18th. Jan^y 1^{mo} 1798.

12. Virginia Snake Root - or
Aristolochia serpentaria
 longa - Black Snake Root
 was used in ourthroat.
 - The Virginia snake root - is
 a bitter, mixed with an acrid-
 many of an aromatic quality
 - it possesses little astringent
 Powers - tis Tonic - tis Stimulant
 - Cullen says no Tonics are sti-
 mulants - you see Gent. This is
 an obvious objection - Cullen uses
 it in Typhus - P. C. Fever - in In-
 flammation agrees with Cullen -

Dr. Stedham gave it with evident
 advantage in Intermittents, in
 action before is Paroxysm.

Dr. de Harmandie in Jersey, used
 it with great advantage in a
 man attended with Catarrh.

13. Cortex Aurantium - Orange
 Peel - tis an aromatic Bitter -
 possesses volatile oil - it has
 been used with advantage in
 intermittents - 3j Pulvis omne Hor.

Leaves of Orange has been used
in convulsive diseases - parti-
cularly in Epilepsy. & in Colica
Pictorum - is said with advantage.

14. ⁿ*Aricea Montana* or Leopard
Dane - an acid bitter plant -
used as a resolvent in coa-
gulated blood - as internal
bleedings - you will not I
am sure believe it - 3j to 3ij
in oil - the flowers - It vomits.
It has been said used successfully
in Intermittents - Dr. de Hahn
suggested it in J. Roob to be a
specific in Dysentery & Dysen-
terea - also in a large & wound
attended with great discharge -
he recommended a 3j every other
Hour in Consumption -

15. *Cascarilla* - Croton Cascarilla -
a bitter with Aroma - recom-
mended in Intermittents - by J.
Bolander of Itall - Cullen &
think it a weak substitute for
J. Roob 3j - every three Hours -

49
Lecture 19th. January 2^d.

all the Tonics & I have said
do not have either a Bitter or
an Astringency - or Both - They
are generally combined - - - - -

More properly Tonic.

16. Peruvian Bark - is an
important article - Obtained from
the *Cinchona officinalis*, a lofty
thick tree - is a native of Peru
in S. America - It was called in
Counsellor's Powder as in Country of
Cusco was cured by it - the
distilled it to its disciples of
Jesuits - some Jesuits bark - it
has been called Loxa Bark -

is one of those astringents in
which a Bitter and astringent
are intimately combined - is
a powerful Tonic - Its Opera-
tion knows it - Its effects in Dys-
pepsia know it - it acts when
it relaxes vessels is acute in
Gastric pain - In Intermittents it
acts as a Tonic in curing -

Galls & Better Almond have
 cured intermittents. They are
 in a separate state. Therefore
 not so powerful as when
 both ~~Lime~~ better and Asting into
 are combined -

In Intermittents - I. At what time
 in is clear sh^d it be admini-
 nistered? When is most to
 should be used immediately -
 When the debility is not great
 & danger not great - some have
 recd - I recd again to im-
 mediately after the first Parox-
 ysm - and Lind says ^{rather} during the
 Paroxysm were produced; but
 when is Paroxysm an on as is
 Intermittent imperfect - a dis-
 cy & Paroxysm were of 6 or 8
 quences - Is any thing necessary
 to prepare in body for admini-
 nistering it? Gullen when gave
 an Emetic or Cathartic - I am of
 opinion it is complete intermit-
 tent is inflammatory. I con-

I would always succeed to use
 it in Laxative. Otherwise the Dose
 as a stimulant will aggravate
 it - Gullen gives Emetics frequently
 to increase the activity of the stomach
 - now as this activity is only
 troublesome symptom. Emetics
 will increase it - As a Cathartic
 to begin with I would recom-
 mend Calomel: gr^{ss} with some
 Muskead: or Camels: ij - I would
 always give a few ss of Rhai
 with the Dose - to carry off stoma-
 chical matters & keep up the ac-
 tion under - When cerebral distur-
 bances exist. I would give the Dose
 if the Paroxysm be severe -; but sh^d.
 there be inflammatory action
 I would not use it -

Whether should it be used in Inter-
 mission or Paroxysm - Some recom-
 mend it as near the Paroxysm as
 possible - The Effects of the Dose are
 not deniable - says he - Gullen says 3ij
 just before the Paroxysm - I say that
 the practice of giving it near the

beginning is always insid-
 ious - by rendering it more in-
 stant - the attack is inevitable -
 I mean as a general Rule - for
 when it is extremely severe & dan-
 ger appears near at hand I would
 certainly administer during the whole
 of the Intermission - The Paroxysm
 is sometimes attended with stupor
 & apoplectic symptoms -

The Bark appears well adapted to
 the cure of these Spasmodic tertians;
 but I would always use Shen-
 nuel's U.S. & Purging - This also runs
 in Quinients. its action is the same
 as Intermittents. viz^t. Mark
 Miarrata -

Lecture 20th. Jan'y 4th. 1798.

I do not think with many
 that the Bark should not be
 administered during the hot stage
 neither do I think it should be
 used in remitting fevers, un-
 til after Evacuations - This in-
 holds in Synocha - Some

say is a highly proper remedy
in Pneumonic Inflammation
when combined with a fever
of a interesting kind -

This certainly improves in some
the Pleurisy; but I do think this
proper in what is called the Pleu-
rasy of a Acute & in those states
which attend fevers of a inter-
esting kind in low Grounds &
marshy Lands - U.S. here is inter-
est. Stimulants proper - The Com-
ed should therefore be withheld
or sparingly used in the Pleuri-
sis of low Grounds - Plague, in
its first stage, is highly inflam-
matory - Dark therefore in its first
stage improves - Dr. Dower, in
I. America - a Pupil of Dr. Syden-
ham's - used Bleeding with a
laxative Effects - He took 100 ounces
of Blood out one Bleeding from 180
Persons - & lost only 7 - & they were
killed with Brandy &c - This Plague
was produced by a putrefaction
of dead Bodies - Dr. Myrtin re -

stimulants in $\frac{1}{2}$ Plague is
totally raised at Marcha; but it
was unsuccessful -

In Yellow Fever. It was syno-
chous - inflammatory for $\frac{1}{2}$ first
3 days - When these inflammatory
symptoms went off - I used $\frac{1}{2}$
Dank with $\frac{1}{2}$ happiest Effects -

In Acute Rheumatism. $\frac{1}{2}$
Dank has been used - Cullen thinks
tis only proper after evacuations -
Dr. Keble gives $\frac{1}{2}$ Dank in this Com-
plaint - also has Dr. Cameron; but
with it he uses general & topical
vs. - It was used by Cullen in
Acute Rheumatism -

In Gout. Dr. Sydenham recom-
mends it. Dr. Gardiner has known
it produce fatal effects -

In Cholera - when it comes
on with a tertian fever it is
proper -

In Typhus - Some say tis
a disease of activity - I do not
believe it - it is in the first
stage inflammatory. $\frac{1}{2}$ Dank of
course must be improper; but

These symptoms subside - if Dark
is certainly proper - Phrenitis gene-
rally attends the Typhus -

In Exanthematous fevers - they
are certainly inflammatory for
a considerable time - When the small
Pox will not rise and fall - but have
a sunk & lead appearance. The
Dark madness is happiest Effects. to
increase is circulation & madnes
will formed & pallid Pustules is
a good matter - Dr Monro rec. re-
commended it - combined with
album - Marsh requires U.S. -

Erisipelas - inflammatory tis con-
nected with Plague - I saw it com-
municated by puncture with a
Lancet, in inoculating for small Pox -

Lecture 21st Jan'y 5. - 98 -

In Dysentery - tis inflamma-
tory - The yellow has appeared in
form of Dysentery - Dr. Morton.
gave it in Dysentery in a state of
Apyrexia - Gishorn used it - Dr.
Hume gave it successfully - Dr.
Cullen thinks it good in advanced state
of Dysentery -

In Catarrhal Affections - is certainly hurtful - Gullen however recommends it with the form attending is interesting - There are some Catarrhal cases which are entirely natural - The obstructions of Perspirations considerable & and discharges from the Lungs considerable - Dr. Gullen recommends -

In Hemorrhagias - They are active and rapid - In it action - Bark is improper - In it Perspiration is weak - The Menorrhagia appears to be of this kind - and bark is useful - In Mictus Cruentus or Bloody Urine; it has been used - as it often depends on Laxity of the Kidneys -

In Phthisis - as it often depends on an inflammatory diathesis - Bark has been found hurtful - Burgess & Moreton recommend it - Sydenham recommends - & Gullen also in some instances - vide Hecquenot on Heber's - in a medical Transactions - In Phthisis from

Leechells Bark has been found
useful -

In Gangrene - divided into
Gangrene with & Gangrene with-
out Inflammation - I am of
opinion - if Bark and all other
stimulating medicines are hurt-
ful in inflammatory Gangrene -
Bark when it depends on debili-
ty - Bark is certainly useful -

In Scrophula & Rickets - the Bark
has been said to be useful - I
will say that Scrophula frequently
depends on too much & too
little action - you will know
what I would do -

In Spasmodic Affections -
When they depend on too little action
or Spasms they may be of service;
but on too much action the Pan-
acea's are the remedies - Titanus
tis certainly frequently arising to
stimuli - as Stramonium & the diffe-
rent narcotic vegetables - In Chorea
Sancti Viti - It depends upon an
increased Motility of the system -
here Bark & if Lories are neces-
sary -

In Chincough - Cullen thinks
in is advanced stage as when it
depends on habit. Dark is useful.

I think the Chincough is a bilious
disease. Herbaric evacuations
are to be employed. Dark &
Castor have been used, combined, &
succeed, in this disease. Dark exter-
nally should be applied only dur-
ing a Intermission of fever.

In Asthma. it frequently de-
pends on too much action. Her-
baric improper - but in a Hysterical
Asthma it is useful.

In Hysteria.

In Melancholy. in a low
state Dark is good.

In Scurvy. it has been used.
Pneumatic Chemistry, that touch is
has lately illuminated so large a
Part of is Remains of medical Sci-
ence. has I think ^{probably} made Scurvy de-
pend on too little Oxygen. here
Dark is an improper & given ve-
getables are the proper medicines.

In Jaundice - Dr. Haller. has
used it successfully - Probably it

acted by purging - as an Iaculic may depend on activity of Intestines. Bark may certainly be of service -

In Worms. Bark as a tetter is an Anthelmintic -

Lecture 22nd Jan'y 9th 1798 -

7. Angustura Bark - a recent acquisition, to the Materia Med: supposed to be the Bark of the Brucea - tis unpoisoned - There is a quantity of color - tis intensely bitter and aromatic - has no peculiar odor - Gives a strong Tincture to the spirit of Wine & alcohol - acids act upon the bark but slowly - It contains Resin - Gum & oil - Tis powerfully antiseptic - Extract of it the best preparation - is is useless - Bark of Angustura loaded - and used in decoction - in doses of ʒj - It has been used in sporadic dysentery and diarrhoea - In Intermittent fevers - ʒij to ʒv - a dose - tis less apt to run off by intestines - used in Nervous fevers - In gangrenous & ulcerated sore Throat & Carlatina

This medicine has been found
 serviceable - In fainting & is
 useful - In Head-achs of service.
 As a general tonic it has been
 asserted to be superior to any other.
 I don't believe it - It does not
 improve by experiment any ad-
 vantage. In Chlorosis - it has
 been found serviceable - In Has-
 ting's cough - but I say not in
 all its stages - only in the latter or
 advanced stage - In diseases of
 Children, this Bark is preferable
 to $\frac{1}{2}$ P. C. Powder - as it does not
 run off of Dandelion so readily -

18. Magnolia. A Liniment is
 used in Virginia of a species of
 this Tree called Sweetgum Tree
 in Rheumatism - I think the
 Angustura is a species of $\frac{1}{2}$ Mag-
 nolia -

19. Willow or Salix - It possesses
 great astringency - is antiseptic.
 Antiseptics should not be atten-
 ded to - It has been used in Gout.
 Hemorrhages & obstructed Menstrua-
 tion - I doubt its power - Dr. Stone
 used it with success in Intermit-
 tent

tents - 27 to 31 every 4th hour
in 1/2 Intermittents - I mean here
1/2 White Willow - The Inhabitants
of Kamshatka used it as bread -
The Salix Latifolia have been found
successful in Intermittents -

20. Esculus Hypochaerisium
or Horse Chestnut - recommended
in Intermittents - 3ij during 1/2
Intermittents - In some cases
it is said to act as a Purgative & in
others as a Tonic - It is Spring is
1/2 best time to gather their Barks -

21. Swietenia Mohagana - or Mo-
hagany -

22. Log-Wood. Cornus Florida

Dr. Cooper has found it of service
in Intermittents - he found it of
astringent nature -

23. Red Willow - I think not a species -

Lecture 23th Jan'y 11th 1848.

~~24. Tea~~ ~~25. Tea~~

24. Tea - a celebrated Antiseptic - Thea
Bohea - & Thea viridis - I feel my-
self unable to determine upon an im-
portant Question, whether this Herb

is more of service^{or} of Injury
to man - The flavor of the Tea
is not their native odor - It is
alien to them by other Plants -
The narcotic and poisonous qua-
lities are destroyed by roasting -
The Tea is said to be of essen-
tial service in Calculus -
It is said to be a preventive of
Calculus in Japan - It possesses
an evident astringent quali-
ty - It is considerably antisep-
tic - The infusion of green Tea
produces an insoluble Ex-
tract without oil - The Jap-
nese are so well acquainted
with its deleterious qualities
of Tea, never drink it within
12 months after gathering - The
Flavor of Tea produces Ver-
tigo - Convulsion - Palsy & Death -
Bad Effects of Tea have been attri-
buted to its quantity of warm ma-
ter that is taken in - Gullen de-
nies it - Dr. Whipple says it pro-
duces, watery humors - It has

moderate loss of memory - Hila-
ritas &c - These different affec-
tions I believe are chiefly owing
to peculiarity of system - It cer-
tainly Tea contains deleterious
Qualities - The more odorous
is most hurtful at once & vice versa
- Infusion stronger than Decoc-
tion because in it latter is more
volatile parts evaporate - It
has been said to blacken in Teeth -

It does not appear certain -

Tea has been said by Dr. Walker
of Leeds to induce Atrophy &
Lactation in young females - I am
rather of opinion this disease was
owing to deficiency of nour-
ishment - as we know Tea con-
tains little -

Some have said the Properties
of Tea are entirely dependent
on its degree and heat - Dr. Per-
cival supposed Tea possessed an
active property - I suppose to
possess the properties in some
respects of Opium - i.e. stimulant.
S^{ty} Pulv. Thea viridis moderate

(62)
costigo - nausea & diarrhoea -

Lecture 24th. Jan'y 12. 98.

Metallic Tonics.

1. Iron. It appears to become a useful medicine after being acted upon by Acids - The Acid in the Stomach converts Iron into a black Gal - Such an Acid I believe to be frequently present - when not, the gastric juice will dissolve it - Iron was supposed to possess different opposite Effects - It is not so - effects are all Tonic -

In Haemorrhage - in action Haemorrhage is very improper - Epistaxis is particularly of this kind - also is Hemoptoeis - Haemorrhage in young Persons is generally inflammatory, therefore Iron is improper - The same disease in old people is generally depending on debility - therefore proper - so is it proper in all cases depending on debility as a Tonic - In some

— who is a valuable Medicine.
 In Intermittent Fevers Iron has been
 used —

In genuine inflammatory Fevers
 Iron, according to my Principles
 will be improper — Iron appears
 to act upon the Solids of the
 Stomach. It certainly has
 an effect upon the sanguiferous
 system — Iron is certainly taken
 up by the Blood vessels, as such
 Blood is certainly more florid —
 Iron has been found in the Lac-
 teals &c — in saline state

Doses of Iron, should be began
 small & increased gradually —
 Dr. Cullen prefers ʒ of Tinct of Iron,
 we agree with him — The filings
 have been used, they are more
 active & generally affect the vessels —
 — from ʒss to ʒjss.

Drink — such substances as suffi-
 ciently the Body with water & nour-
 ishment — Water is the chief used
 for drink — and all Matters relieve
 Thirst in proportion to the Quantity
 of Water they contain —

1. Water. Is it liquid taken in to satisfy the thirst of man & supply the body with fluids - This fluid is well suited to its economy. Water is never found elementary pure - always impregnated with various matters - Waters are divided into hard & soft - The hard is generally impregnated with Gypsum & Lime - water impregnated with it is Lime generally harder when first used - water has been drunk of it longest Lime -

Lecture 25th. Jan'y 15th 1798.

Water to be obtained from shafts be distilled - Acid water is said to be of hard water - more so if snow or rain - Acid water is so hard as to melt tubs & of the richest matter to it Gallian - Snow is said to be & is long known to fertilize the ground - not as some say owing to nitrous air but contain a large quantity of earthy matter - Snow water is liable to sublimation,

62
arising to a Quantity of vegeta-
ble & Animal matter - also does
rain water - Dew water is ex-
tremely impure, containing a
very large portion of animal
& vegetable matter - most near
ishness to vegetables - Hard, spring
water the most impure of any -
Hard water exposed to the air be-
comes soft - owing to the depo-
sition of earthy matters - Earthy
matters are deposited by exposure
to the sun, hence some suppose
our water is diminishing & of earth
increasing - Gout, a disease
of the Thyroid Gland - a species
of Struma - it commonly att-
acks adults. Those who are ill fed
it commences with dullness &
stupidity ending in Idiocy -
It appears to be of Brassicaceae
Bacium - & - The Author says it
is a disease of Switzerland called
Hernie Gutteris - he says it is more
frequent in females - the Tumor
hangs down in form of Pear - some-
times contains matter, at other

times becomes quite hard &
 cartilaginous - Broncocele
Sarcosmia - they are only in
 my opinion different grades
 of the same disease - Goutar.
 I shall consider as to prevalence
 in N. America - I observed this
 disease in the Indians in Ohio
 & People from Connecticut
 I was informed by Dr. Hopkins
 became affected by it by settling
 in America - An old Indian in-
 formed me that it was not
 unknown among the Dutch
 in the West of New York - From
 my own observation this dis-
 ease prevails much more
 frequently among females -
 It also prevails there among bat-
 tle & chub - There is a Run there
 that cattle get affected by after
 drinking it - this water contains
 a large quantity of Lime -
 This disease subsides in cattle

during Winter - I observed it
 among men prevalent near
 the Head of the Mohawk River -
 This disease altho it prevails very
 extensively in N. York - prevails also
 in Vermont - in Pennsylvania -
 in the last Place, Dr. Thomson in
 Pittsburgh informs me it then
 affects Children as well as adults -
 The People whom it affects, uni-
 versally ~~ascribe~~ this disease to
 the Quantity of water they drink -
 The People in these brooks are
 interested with a calcareous Earth
 altho' there be facts - yet this di-
 sease prevails where Lime stone
 is scarcely known - and this com-
 pounds this disease very frequently
 known in those places where Lime
 exists in its greatest abundance -

The disease has been ascribed to snow.
 Water - but this disease prevails
 where snow is not known & it
 does not exist where snow is in
 greatest Quantity - a winter lately
 ascribed it to cold water - it can be

Mr. Foster attributes it to Lee water
being deprived of fixed air -
This disease has been attributed
to water from coal mines -
but I think not so -

Lecture 26th Jan'y 18th. 98-

My opinion is that the Gout
is produced by Galeaceous Earth
impregnated with water. There
are exceptions; but they are few -
Some suppose this disease is pro-
duced by air passing into the
Thyroid Gland from the Trachea -
Cause of Gout. It has been said
it has failed - perhaps because
not carried far enough. I have
heard of a case perfectly cured
by it. - The ash Pustles has been
used with success -

3. Instantia or Stimulantia -

Dr. Darwin. They are all those
things that increase of action
of Irritation motions -

(698)

Dr. Dureau says they increase
absorption &c — They are those
substances whether externally
or internally excite & system
into action — I am still of opi-
nion that Lonic are considerably
stimulant — for instance Indian Root.
Cortex Aurant. &c — Stimulants, says
Dr. Dureau are absorbents — Even
Vesicæ &c externally produce ab-
sorption — internally — I. Vesicæ —
Purgæ &c. increase absorption —

1. Opium. This I will leave
to you is a powerful stimulant.
Tho' I think not so powerful as
some other vegetables — Opium
is a product of a Poppy — & Pop-
ulus somniferum — Imported
from Egypt. Ergonæ &c — reduced
to a powder, is a dark brown
which I believe Opium is generally
obtained by boiling to an Extract —
Dureau is much better when obtained
by incision in a Poppy & inspissating

The Juice - Incisions made
by an Iron instrument, says
Dr. Grunke, turns of a dark
black color - this is owing to
Gallic Acid of vegetable striking
black with Iron in instrument - . . .

Lecture 27th no Jan'y 19. 98

Effects of Opium on the System
in a healthy State - externally
as in Eye - now - demonstrated ex-
tensively - it produces Pain - heat &
Inflammation - succeeded by
extraction of Pain - Dr. Grunke has
used a watery solution of Opium
in his Eye - it was followed by
different symptoms of Inflam-
mation - he also snuffed a Pow-
der - it acted like weak Snuff -
- Injected in the Nostril, it increases
inflammation & then it subsides -
I have used it in such manner
in Gonorrhoea - to increase
secretion & should be laid aside
in that disease - Grunke applied

(71) Dr.

it is sound skin - it produced no sensible Effects. Others say, it acts with all its effects given externally - Dr. Morley it is of no use externally - Dr. Cullen says it may not only be given by Mouth or Injection; but applied externally with powerfully good Effects. Dr. Cullen thinks it best applied externally in form of a Liquid. I myself, am confident it acts powerfully externally - my ever venerated Friend Dr. Pottinham was continually relieved from Pain in his Breast by this application - it produced Emetics. Does it act by being absorbed? or does it act upon the Nerves & muscular fibres? -

Opium produces the following Changes in the Vital Functions - it increases the frequency & fullness of Pulse - a degree of heat - In large doses it increases respiration, produces stertorous breathing & ends with all the symptoms of Apoplexy -

all authors mostly agree in
 Opium increasing is Cerebration.
 particularly of Taste, that unfor-
 tunate Genius Dr. W. Brown -
 Dr. Brown's Experiments in my
 Opinion successfully prove the
 exciting properties of Opium - They
 uniformly prove that if Pulse was
 either increased in frequency - full-
 ness or strength - Brown was con-
 vinced in his Experiments. he saw
 the Opium in a exciting solution -

I am therefore emboldened to declare
 that the primary Effects of Opium
 are Stimulant. Attention should be
 laid from the time of swallowing
 of Medicine, to the Pulse - It is from
 neglecting this Precaution that
 that we find so many deca-
 tions in our Treatise of all Medica-
 tions. This evidence most evidently evince
 the Seat of its Power - Opium in
 large dose produces genuine who
 dling - The Lancet is its Remedy
 as I have frequently experienced.
 In the Natural functions - It en-

(73)

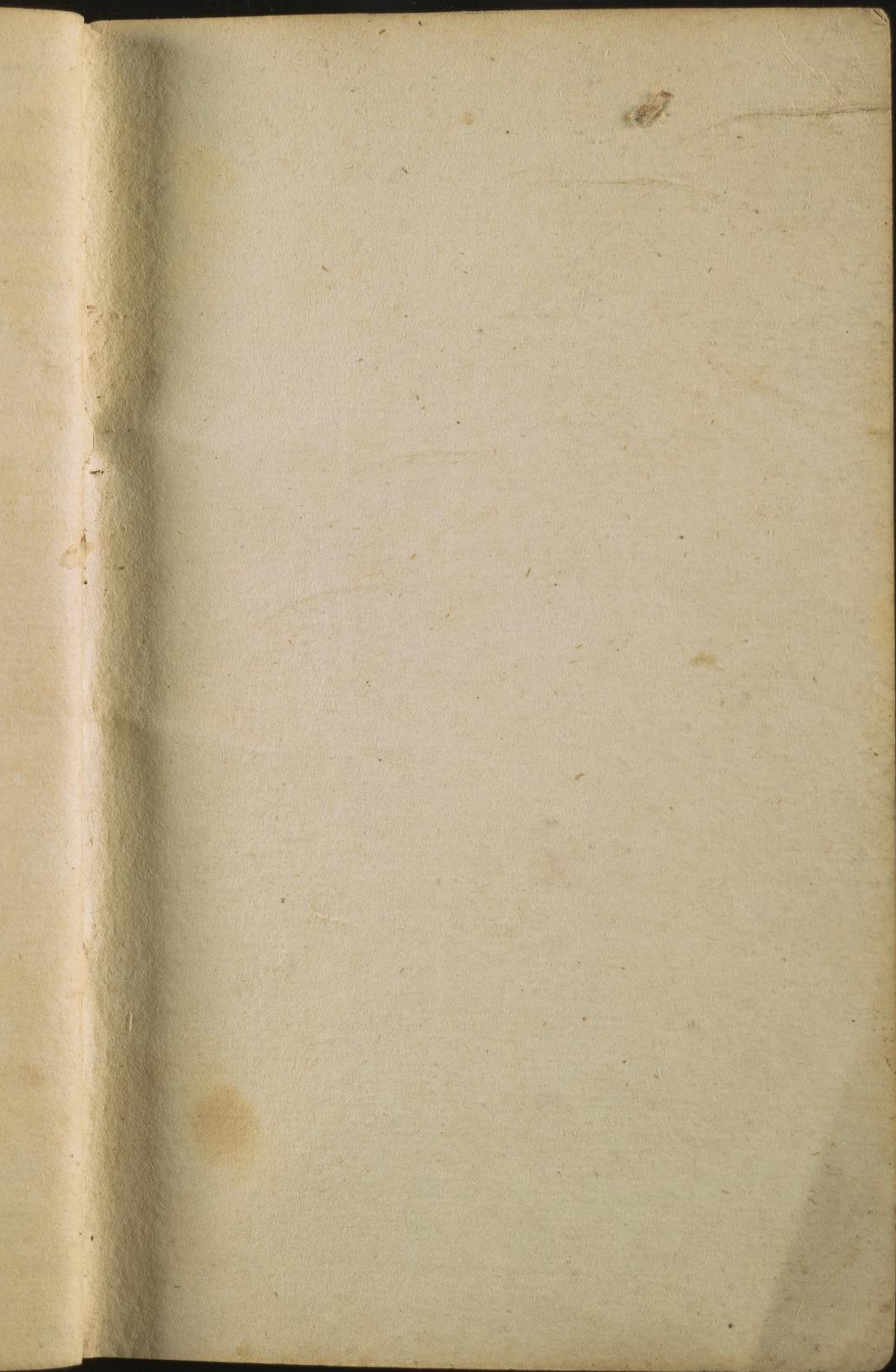
means the secretion of bile &
all other secretions - It gives
appetite - Dr. Guttman says they
are nourishing - his speculations
are infamous nonsense - They
are not nourishing —

Ferris No. 1.

(vide No. 2.)

“ ” “

(74)









J. Hucker Jr.

Walter Hunt



J. Hatcher Jr.

Graben mound



of
the
- J.
the
y
in
the
a
I
tan
it
Dr
the
du
by
the
by
the
du
and
Hal
am
Dr.
in

Lecture 28th - Jan'y . . . 1798.

Opium, continued - with its
Effects on the Natural Functions.

It is a poison - digestion - pro-
prietation stops in large doses -

Low state, meagre - acts by unde-
rmin' ~~counteracting~~ the Canal Contin-

The two Boleuses as it acts by
a Laxative - they are - In this case

I suppose the man to be in a
torpid state when they man, dis-

order? It is Lord's - Effects in

Drugs is Animals, with much

shows Effects - pro-

duced Effects -

by the Effects - by the

skin - Effects - indeed

by an Effects - on the

skin - Effects - by

drinking Effects - of the Opium

any detecting warm Drink - Dr.

Haller says that he removed the

smell of Opium in Effects -

Dr. Rush observed the same occur-

ence - Effects - to observe

This - as to show it enters into the
Composition - I by Experiments has
been known to increase of secre-
tion of Bile - Dr. Boerhaave has mostly
observed that this is much as
all other symptoms are ab-
sorption - In functions
It produces an ite.
This dilemma hint.
it increases in al appetite. It
is anal non Liquor.
The latter um are quite
apparent - the produce
Langston - Concord.
scions & d of eastern
Caution of hum is
used in then they so
to wear this produ.
as a d so fear -
In melancholy than ex.
unusually dramatic mations -
Dr. Boerhaave of Aleppo has frequently seen
this, taken with aromatics, to the
Quantity of 3ij in 24 Hours - The Quan-
tity of 3x has been given in the course
of 24 Hours - to take a

Handwritten note: *Handwritten note*



large quantity of Opium, & with
 it, a quantity of acids - I shall
 mention hereafter that the use
 of this Medicine must upon the
 Effects of Opium - The Turks go to a
 decoction of Opium in Constantinople,
 with Hales, meagre - & dreadful los-
 ing countenances, when after swallow-
 ing a few Boles about the size
 of Olives, - they are made to ges-
 tulate in the most ridiculous
 manner - when they make them-
 selves as happy as Lords - Experiments to
 Opium on Animals, evidently pro-
 ved its stuporant Effects -

Lecture on Opium by 25th of 98 -
 12th 18th

To exhibit the manner
 in which Opium is used - warmth
 hilarity - & the dose to
 produce that effect - Ga-

Opium is most evidently the
 most potent - Opium is a powerful
 stimulant - Opium is a stimulant of the most
 different kind - Opium is used
 in low state of Lymphs - in Intu-
 ments - In the Confluent Small

Pain - Dr. Sydenham considered *Primum* considered as the greatest Cardinal, that ever had been discovered - Dr. Haller considered its Effects in every respect similar to *Spasms*. also Dr. Huxham - Dr. Darwin places it as I have done, at the Head of *Intestinalis*.

Primum by all is considered as absolutely necessary in *Ren-*
ury & other inflammatory diseases - now if it were sedative it must be useful - Dr. Young very judiciously says that in all diseases of the *Intestines*, *Primum* is necessary - *Primum* is a Pain - in which *Primum* is necessary Pain is certainly useful - altho' *Primum* does relieve Pain. If an inflammatory nature, this does not make it to be a sedative - for the *Primum* does

at first increase the Pain. It is
only when the Torpor or second-
ary Effects approach that the
Pains are relieved - When Nature
renders the use of Opium neces-
sary. The serious Effects will only
be prevented (where Opium cannot
be had) by the acknowledged Stim-
uli, such as Spirits - Wine &c.

The primary Effects of all Stimu-
li are to increase the Excitement
of the System. The last Effects of
a large Dose will be a Torpor
or insensibility. As stated by the
celebrated Physician "Indirect
Dilability" - "The Stimuli are not
anodyne but they are to their
stimulating quality - They are
so in proportion to their differ-
entibility - for the more powerfully
sudden its action, the more quickly will
there be an Exhaustion of Exci-
tement - & contraries with

Stimuli of the curable kind -

1. Opium is a powerful Stimulant -
2. It is suddenly diffused -
3. It is quickly Exhausted -
4. To remove the Excitement -
5. And its secondary Effects in large quantity are to produce immobility -

Lecture 30th. Jan'y 26. 98 -

Analysis of Opium - It is a Gum - Resin - the mode of turning the essence of Gum & Resin - is to dissolve it in Sp^t & some in Water - They in an equal quantity - The Opiumous part is distinguished by examining the Gum - The Resinous part is the latter - Dr. Brunst took $\frac{1}{4}$ of the resinous part of Opium & increased his Pulse & made all the Effects of Opium in common - He took $\frac{1}{4}$

of the Gum. it produced no
 Effects - & it raised his Pulse
 some ~~more~~ beats. & produ-
 ced the common Effects of
 Opium - Thus altho' the
 Common Herb is less power-
 ful than is common yet in
 large Quantities it has the
 same Effects as is common -

Dr. Brunck Thompson, im-
 properly concludes that the
 Quodities of Opium ~~is~~ ex-
 clusively in its Opium. & is
 the Gum or ~~the~~ ^{the} ~~resinous~~ do-
 lution in its ~~resinous~~ ^{resinous} ~~act~~. I say
 Dr. Brunck & ~~the~~ ^{other} Physi-
 cians are wrong who contend
 that ~~the~~ ^{the} ~~deliberate~~ ^{deliberate} ~~herb~~ ^{herb}
~~is~~ ^{is} in the ~~resinous~~ ^{resinous} ~~part~~ ^{part} of
~~medicines~~ ^{exclusively} ~~the~~ ^{the} ~~herb~~ ^{herb} ~~acted on~~
 Opium produces no Effects. The
 active Properties are perhaps co-
 catilized -

1. Pus contains Iron-
 Oxide - a Salt & earthy Par-
 ticles -

2. The Pus & Oxide are nearly
 in equal Quantities -

3. Pus contains matter of great
 frequency -

4. The Separation of Pus's
 different Parts can be of
 no service -

In Intermitting Fever -
 Synocha & Typhus in their
 first stages are evidently in-
 flammatory. The com-
 mencement is evidently
 does Injury. The Inflam-
 matory stage is different in
 continuation according to
 Stimuli. The more violent
 the Stimuli is more violent
 & short the inflammatory

Stage - In general I have
 said urine should be prefer-
 red to Opium - however this
 is hardly called for in those
 cases of Delirium, which at-
 tend the low stages of fever
 when inflammatory action
 is removed and delirium is
 manifested - Dr. Bellchurst long
 ago recommended Opium in
 the low nervous fever - Dr.
 Campbell has since the good
 effects of this valuable medi-
 cine - Opium to Camphor
 has been known to have
 a particular determination
 to it than Dr. Campbell's gave
 at that time as follows

Of Gum: Opium 8 Mj

Gum Camph. 8 Mj

Great Relief - In the advan-
 ced stages of fever when con-
 vulsive twitchings attend

Quinn 2nd happy Effects -
 rescued in ~~breath~~ of sleep
 from dream -

In Yellow Fever - when Pain
 attended, Quinn was resor-
 ted to - its effects were injuri-
 ous - however when there was
 an unstable state of the Sto-
 mach Quinn & others was
 of real service -

Lecture 31st Jan'y 29th 98

In Intermittent Fevers. Galien
 Stimulus & some Quinn with
 success a few hours before
 the Paroxysms - Dr. Bertrab
 same it only an hour before
 the cold stage - Dr. Lind, how-
 ever same it, after the Paroxysm
 has passed - it shortens the
 fit - produces a Perspiration
 & brings about a refreshing sleep.
 Quinn in the hot fit says he
 will not enquire if; tho'

it will not remove it.
 If there were a delusion, Opium
 should be delayed - after
 which it knows of great service - altho' I cannot find
 fault with Dr. Lind, yet still
 I would not always follow
 him - Dr. Crunk recommends
 Opium before the Paroxysm
 from 30 to 60 Drops - Dr. Stork
 of Vienna says it is very injur-
 ous in Intermittents -

Opium however is of service
 when given with Bark -

In Phlegmonia - These
 complaints are certainly in-
 flammatory - it is certainly
 proper to excite Inflammation
 into action and Pus.
 In the first Stomachants are
 generally improper - in the
 latter they are proper - In the
 active kind when in the latter
 stage - Opium is proper very

producing a healthy & new
Exudation & by promoting an
absorption - Dr. Cullen recom-
mends Opium in the suppura-
tious stage of Inflammation -
at which time he believes
Inflammation to be removed -

Dr. De Hahn recommended
Opium combined with I. in
Pneumonic Inflammation -
also in any Catarrhus Capitis
&c - Authors however generally
preclude their use by Exacer-
tions - In the latter stage of
Pneumonic Inflammation
Opium combined with mor-
celaginous discharges are of essen-
tial service - I believe is
a good rule that Opium is
of service in inflamma-
tory affections when not
attended by sweating -
In Catarrhus affections, after
excretions Opium is of

(1882)

real serum -

Mist: Musculasimora -

R. Elix: Purgorie: 3j

Antem: Vin: 3j

Quin: Analeis & Liquorica 3j

Ac: Tartan: 3viij

Coagula magn: M. ij ann: test Hor: -

In Rheumatism - Acute &

Chronic - In the Acute after

the inflammatory symptoms

are ^{nearly} subdued. a Suction

should be used. Puls: Doven

is well adapted -

R. Theae

Quin - a 3j

Sulphat: Alkal: Veg: 3jij

q. s. & as ye every two hours un-

tille a catharsis is produced.

Cullen says it should be taken

after sleep - to drink no Liquids

untill evacuating is produced,

after which the Patients should

drink freely of warm drinks -

Dr. Smith has lately described an

Acute Rheumatism with Sui -

lability - which came on in

meat & after; chronic
kind - Full: 6 - Pains: near of
service -

In Erysipelas - Opium can be
of little service ^{when in effect} -
of his hallucinations considered
it as infallible - I wish to
run so - In the irregular
Erysipelas Opium is certainly of
great service -

In Exanthematosa - 1. Small
Pox - when mild and distinct
Opium could not be employed
unless convulsions come on -
In confluent small Pox, when
the suppuration starts, Opium
with the Dark is of essential ser-
vice - It is however seldom
to be given before the 7th day -
In the secondary fever, Opium
should not be used, but sh^d
be treated by Evacuents - In
this form when a Diarrhoea &
Irritation Dr. Moreton says

There are fatal symptoms - his
 observations however are con-
 trary to those of Doan & other
 Physicians - 2. Measles -

This disease should be treated
 with in Lancet, cool air &
 Purgers - Opium should be
 no means be employed - even
 for the cough which attends
 unless when far advanced
 should Opium be used -

The diarrhoea which attends
 this disease should be atten-
 ded to - Milk I have found
 of most service -

Lecture 32^a. Jan^y 30th 98.

In Asthma major - In it
 active kind. Opium as well
 as all other Stimulants are
 improper - In it Purgers
 Opium is highly serviceable.

The management of Asthma
 major is a very nice thing -

in 19 of 20 ^{of} inflammatory
nature. U. S. Bleedings are here
higher. Erysipelas, is most
certain kind. - chronic U. S. -

Hemorrhages of Women
from constriction of the
uterus. Uterus has been found
irreducible. In Hemorrhoids.
Uterus has here seldom been
treated - generally is inflamed.
tary -

In Dysentery. Uterus is
this disease is so well
established & so well known
even to a student of medi-
cine, that I need say no-
thing concerning it -

In Tetanus. Uterus has
cured this disease. 8th 1500
men given to a man
in 17 days & cured the
disease. -

In Hydrophobia - this
 I believe generally fatal -
 This disease will arise
 from the cause than
 by taste of a rabid animal -
 many vegetables - Halls snake
 &c. will induce this di-
 sease - The cause of this di-
 is certainly stimuli - U.S.
 &c are in remission - There
 are are two cases when
 the Patients live 190 3. Blood
 in two days - Nuyent
 relates a case in which he
 found Opium curable -
 Dr. ^{Darman} ~~Barbey~~ is in fact I believe
 who used U.S. in this di-
 sease - There are two stages
 of this disease - The latter stage
 Opium is curable -
 In Chorea 1st taste Opium

(92)
is highly curable -

In Epilepsy - Loss of Mind
has been blamed for causing
this disease - This I cannot
suppose - This complaint is
certainly owing to a Pletho-
ric state of the Blood vessels -
Cullen says Opium will
not prevent these fits, but
on the contrary being so -

When this disease depends
on nervous Irritation, Opi-
um is highly curable -
It is Anna Epileptica. Opi-
um has perfectly cured -

In Palpitation of Heart -
when an organic affection
no medicine will cure -
In this case it will be
of service -

In Asthma. This di-

(174)

is very frequently de-
rived on a long-term in
Lungs - Quercus has mo-
derated the disease in some
cases - but never cured -

In Pertussis - in the latter
stage Quercus is very suc-
cessful -

In Pyrosis - This said to
be excited by a cold,
salted meats - cured by fresh
meats & milk - Quercus has
moderated a bit of it, but
never removed it -

In Cholera - when from
the Pulse &c. - you find it
to be inflammatory - you
will refrain from this
medicine - Dr. Brown
began to lose his reputa-
tion in Edinburgh first

by giving this medicine
early - In the Styptic
Colic Opium is annua-
le - In Bilious Cholera tis
good after Evacuation -

In Cholera - tis use is
well known -

In Asthenia - as it often
depends on a plethoric
state of system this Me-
dicine is hurtful - but
when depending on a Mo-
rality of nervous system
tis useful -

In Mania - Authors say
they have sometimes found
Opium annuabile; but
more frequently hurtful -
Large doses have been given
in Cerebral - Emotion sh^d.
be given in Cerebral

(926)
to have Effect - Perhaps is
best method of treating Mania
from Spontaneous Leucorrhoea, Thi-
um should be given in small
repeated doses -

In Gynaecology. one kind de-
pends on Inflammatory Ac-
tion - another - when de-
pending on sterility is, to
other should be highly useful.

In Ulcers. it has been good.

In Syphilis. I think by it-
self will not cure the
disease - but it is unde-
rstand much more accom-
plishable by combination with
Mercury -

Lecture 33^a Feb'y 1^{mo} 98. -

2. *Hyoscyamus niger*. Black
Henbane - Leaves, chiefly used
or an Extract of the Leaves - a

Extract may be made from
the seeds & an oil may be
expressed & excellently laxative -
The analysis it yields - a Gum
& Resin - This article has increased
by the Effects of Opium - and by
it is always Laxative -

Dr. Hork gave it in \mathfrak{s}^{ss} - \mathfrak{ij} - in
in oil - he ment as far as
 \mathfrak{ij} in oil - used it in Con-
vulsion diseases - It produ-
ces sleep & more uniformly
than even Opium - It produces
sleep - sweat - vertigo - cheerfull-
ness - Languor - increase of Urine -
&c - In Cholera when it is pending
properties of Opium is impos-
sible. I have employed Hyoscy-
amus with much more ad-
vantage -

In Cholera - \mathfrak{s}^{ss} - \mathfrak{ss} in oil -
also \mathfrak{s}^{ss} or \mathfrak{ij} in oil -

(98)
The active Properties of Asarum
as well as all other vegetable
Purges, are rendered inert by
the Vegetable acids - (vide Med.
Comment: Edinburgh.) -

3. Stramonium Datura -

It seems to me an unusual
stimulant - It increases Circula-
tion - excites - urges &c - (vide
Dr. Cooper's Inaugural Dissertation) -
Dr. Stokes recommended it in
of Extract in Epilepsy - Mania &c -
Berger has given it success-
fully in Mania - Delirium from
Purpural fever - & in Melancholia -
When taken in large Quantities
produces Tetanus -

4. Aconium Mactulatum, Cicuta.

much extolled in Cancer - It is
killed to much Inaise - M. Latta
in his Surgery. has related some
unsuccessful Cases of its suc-
cess - a Bath or application of
of Decoction has been applied

to Cancerous affections - This medicine is used very successfully in Scrophulous. It is likewise universally successful here - given in some cases as far as 8th 4th in 3 o'clk, in Extract - It never produces any bad Effects - if they do tis not the medicine -

In Syphilis - Mr. Hunter & Orell have used this medicine with good Effects. Indeed in all Skin Sores, attended with Inflammation tis valuable - a French Gent. has informed me that Herlock universally produces Salivation -

Lecture 34th. Feby 2^d 1798

5. Camphor - Tis obtained from different Shrubbs. but particularly from the *Laurea Camphorata* in Japan - Camphor is insoluble in water, unless

thro' the intervention of a Mucilage - There is an acid, Camphor, which produces nausea. This is not the proper Camphor. Dr. Crawford used the Native Camphor with Peruvian Bark successfully in Intermitents -

Camphor is soluble in the acids. with Nitric acid it forms the Camphoric Acid —

Camphor produces Convulsions in Pigs. Mice, if placed near them - If placed with Frogs, it excites Convulsions & death - On warm blooded animals, as Birds and Quadrupeds - is violently affected by this medicine. producing Delirium - Convulsions - Hydrophobia in Dogs - increased flow of Saliva - The violence of these animals which were destroyed by Camphor, showed upon dissection, every mark of Inflammation - It is an unusual Stimulant - The active properties

of this medicine reside in its
volatile Particles, and act on
the Brain and Nerves - Expe-
riments show that this med-
icine destroys Irritability - is
absorbed into the Blood -

Upon a Human Dose, Camphor
produces - Vertigo - Eternity - dim-
ness of sight - Nausea - increased
force of the Pulse - Some contend
for its being a sedative - but
my own experiments have led
to see a stimulant - it first
produces a coldness - Camphor
promotes vegetation - here it cer-
tainly acts as a stimulant -

In Nervous Fevers, Camphor
has been long used - Sir J.
Pingle found it to be Anti-
cptic - It was used in what
are called Putrid Fevers - It pro-
duces a death-rattle -

In Gangrene. Camphor has

long since been used - Quarin
says, if injected in such Cases
in the ulcer, it is evidently of
much service. —

Lecture 35th, Feb'y 5th 1798.

In Confluent Small Pox.
Camphor has long been re-
commended. & has been sub-
joined to destroy & contagion.
In said Camphor applied over
the Eyes will prevent the
Small Pox falling there &c —

Inflammatory Jaundice - some
have used Camphor, when
it is supposed of its refriger-
ating properties - tho it must
be observed they used Cathar-
tics -

In Purpural Fever - cannot
be proper -

In Rheumatism. In its ato-
nic state it, I believe is good -

In Gout, it has been recom-
mended - In my opinion is
dangerous - as well here as in
acute Rheumatism as to
produce a translocation of it
Dissolve - Dr. Ferrion has found
it sol: Camphor in Oil rubbed
on the Joints produce good
Effects -

In Epilepsy. Camphor has
been recommended -

In Chorea Sani. tili. Dr.
Lutman relates a case suc-
cessfully treated by Camphor -
began in 8th is then as far as 3j -

In Mania. Melancholia &
Nymphomania. I myself
have seen two Cases of Nymph-
omania. W. is more known -
W. Lata. has cured Mania
in our Medicine - he gave 8th 4j
in oil & every day increased 7

down & it - till he took 3^y in dis-
Berger uses our medicine in
very large doses in these diseases.
In ^a most cases that Garrihan
where it was successful, was
used in those cases where there
was little fever or in old People -

Camphor & Opium - has been found
useful in Cancer - is said to be
is narcotic properties of Opium -
I have not found it so - is no
objection to it if the use of an
medicine is required by another -
Camphor & Bark, more power
ful in Intermittents -

Camphor & I. said to lyse in
Presence of I. - its saturating -

Camphor & Ungt. I. I have found
will more readily cure Ven-
ereal disease &c. I believe it
stimulates & absorbs & pro-
motes Absorption more quickly -

Camphor e Cantharides. Las

been said to be on distillay
^{acumination} & Effects of Camphor - Camphor
is said to have but an astrin-
gency - Dr. Cullen never ob-
served such Effects -

Camphor applied externally is
said to cure Retention of Urine -
In Troncocele -

Mixed in water will af-
fect very much to dissolve
Camphor - also Gum: Arabic -

6. MUSK. obtained from an
animal - is of most odori-
ferous & most intense of its
odor ~~that~~ any other in Nature -
This an inflammable substance -
rather tough - composed of the
resinous & gelatinous parts &
also a saline property - when
distillation it forms Vol: Alkali.
It increases of Pulse - sweats -
raises of Spirits - and much

in China - In Europ. it is
strongly recommended by
Sir J. Pringle & Dr. Cullen -

In Tetanus - our Medium
has been used -

In Hydrophobia. hereth has
been derived from 2 Chinese
They used it in 8th & 7th of
of native and Fuchow & Gin.
natives - I believe it has done
less than has been imagined -
Boerhaave says his "Morbus
inflammatorius maxime" - the
cure therefore says he is bleed-
ing "usque ad deliquium" -

In Colica Pectorum this
medicine has been used - but
I will hereafter inform you
that I & S. Guai: is by far
is most valuable medi-
cine - Dose of genuine Must
is from 8th + to 7j -

In *Sedum* *Leidenicum*, from
low fern - Musk is said to
be valuable -

In *Maria*. Dr. Cullen found it
very useful -

7. The matter from *S. Musk* or
Pale-Cat in *Urt.* & to *xx* has
been found very successful in
chamodic affections. It is said
to be similar to Musk -

Lecture 36th. Feb 8th 1798.

8. Castor. in chemical analyses
appears similar in Qualities to
Musk - It is an animal substance
is had from *S. Beaver* of our
Country - It is a stimulant - It
is useful in Sticking Cough -

9. Guaiacum. *Guaiacum* *offic.*
umalis; obtained from it -
This medicine is found in
America - said to cure the
Venereal disease. Mr. Hunter
& Dill consider it as a valuable

auxiliary with S in venereal
disease - Guaiacum is a
Neesen-Tree - rather S Gum-Tree -

In Gout - this medicine has
butly acquired much celebrity -
(vide Dr. Dawson, on Rheumatism
and Gout.) Dawson says it may
be given while the Gout is pre-
sent - Dr Cullen says, not -

Gum. Guaiac 3 ss 3 ss .

arabie . . . 3ij

Aq & Lardan 3ij - M ft it
add sugar - et capt. Cachou:
mas: N $^{\circ}$ ij per dosin - Burgen -

This is much preferable to the
Shenkens Liniment. It is good in
Gout - particularly in detestated Gout -

In Colica Pectorum - I have
found this a valuable medi-
cine - S \times or ss - it acts as an
universal Stimulant -

4. Errhine - one of the me-
dicines or produces an Excretion
of Mucus from S nose with
sneezing - they produce an afflux

of Fluids from a neighbouring
ring vessels - these Medicines sh^d
be continued, if they have be-
come habitual, otherwise they
will be apt to fallow -

In *Hydrocephalus internus* -
Eubius have been recommended -

1. *Beta vulgaris* - or common
Beet - the Juice is used, squeezed
up the Nose - the Powder is also
used -

2. *Apsarabacca*^{Apsarabacca} - This is most
homoeop^{at} of this Class - it produ-
ces a very large discharge - 8th is
Powder, makes a convenient Snuff -

3. Tobacco - Found indigenous in
America - called so, from the Island
of Tobago - Linnæus called it Nico-
tiana in Honor of a Consul of
name of Nicotian - In the form
of Snuff, it is you all know, an
Eubius -

4. *Euphorbia Peruvialis* - sh^d
be carefully used, as it is apt

to induce dangerous Inflammation - Erkins have been used to relieve Toothache. Headache - &c - It has been said Erkins only produce their Effects when applied to the Part - but I have sufficient Reasons to conclude that they will exert stimulatory Effects when taken in of Circulation -

Lecture 37th Feb. 9th 1798.

5. Emetics -

They are such medicines as throw out the Contents of the Stomach some authors warning may conduce to the Health of the Body, even tho' the Body be in good Health - But there are no facts to prove this being of any service while in a healthy State.

However they are well adapted to certain states of the System under disease - The first Effects of Vomits are to evacuate the Stomach but they generally evacuate the

Quadruplex - which certainly
 is frequently ~~unaccounted~~ un-
 derstood, by Emulic. Castagnon &c.
 vomiting excites, an increased cir-
 culation throughout. Lenses in
 proportion as they ~~are~~ increase of
 circulation they are followed by
 a diminished action - Cullen
 supposes Emetics excite sweating
 from a sympathy that exists
 between the skin and stomach.
 but there are Emetics which do
 not excite sweating, tho' they do
 vomiting - as Digitalis - W. Moore.
 Dr. Robison says. Emetics produce
 an constriction of the vessels of the
 skin. contrary to Dr. Cullen - W.
 Moore says. if Emetics be mixed
 into the stomach they excite vomit-
 ing - in a few hours, leaving - &c.
 the blood vessels, sweating. &c.

They are said to be noxious, &c. their
 effects show, the Power of the vis medicatrix
 to throw them from the system. Now
 does not such a power exist -

In Asthma. Guaiacum has been considered by some as harmful in this Complaint. In 1810 it frequently induces vomiting; but in some larger doses are required. Whennide - Stomachalanding this medicine given internally, is good for Asthma, see Instances an on Record to prove that the chest will immediately ex- cite it. In the humoral As- thesia, Emetics are considered by Whennide, as valuable Me- dicines - Dr. Cullen supposes Emetics act in Asthma by di- termining to the surface. I am disposed to believe him -

In Hemoptoe. Dr. Osier Robinson strongly recommend- ed Emetics in this disease. He supposes they act by produ- cing constriction on the whole

external use - Dr. Dalling.
 gave doses of $\frac{1}{2}$ gr. $\frac{1}{2}$ with
 sugar in Kamarkagin. he gave
 them *Pharmacopoeia* so as not to
 excite vomiting - in *Melus* Gru-
 entis $\frac{1}{2}$ gr. every two or three hours
 has been successful in the
 hands of Bunge -

In dreams of Head-Eme-
 tis has been recommended -

In *Hernia Scrofulalis*, Em-
 tis in *Helena* useful -

In Jaundice. Physicians have
 generally found them an-
 useful, when then even Fall-
 stoms -

Emetics are all derived from
 the vegetable & mineral Kingdom -

1. *Assarum* - *Assarabacca* -

The root powdered & mixed
 with - is a manageable Em-
 tic. Leaves are also Emetic - It

has been used in *Intermittents*

2. *Erigeron* - Groundell. A Decoction
 made of *Emetic* - applied externally
 used for Intermittents.

3. Tobacco - a Decoction makes
 Snuff was found *emetic* in
 Hollentals - applied externally
 in a state of moisture, will
 excite vomiting. Stedman - 3ij
 of Tobacco in a Pint of Water, has cured
 Intermittents, and removed In-
 flamed Tumors - it produces
 vomiting - attend to its *Emetic* property
 externally.

Lecture 38th. Feb. 12th 1798 -

4. *Spicaanthra* - still in doubt
 from what ^{Plant} it is obtained - The
 Root consists in a Bark and a
 wood. The *emetic* Properties
 appear to reside in the Bark -
 This one of the most valuable
Emetic we are acquainted -
 Is used either in substance or
 in Wine - Dose: 3ij. White ^{Wine} 3ij
 Dose of *Emetic* Wine -

I would recommend to
 you this Emetic, as being far
 preferable to any other in
Cynanche Trachealis - It
 most commonly is a cu-
 tain emetic - even an
 opium will excite it
 and even vomiting - It has
 in small doses cured *Uterine
 Hemorrhage* - To induce full
 vomiting - ʒj has been given
 in Powder - ʒij of Infusions -

It is lately found that small
 doses are sufficient - ʒss have
 been found large enough -
 I think however, as an emetic
 it should never be given in
 doses under ʒss - from
 ʒss to ʒj are sufficient -
 I have found ʒss always
 sufficient -

In Intermittents - Dr. Gullen

mentions it as being a certain
remedy - given a little before
is accursed -

In Dysentery. It has been
warmly recommended - so much
so as to receive its name of
St. Lucia - It however does not
deserve so high commendations
as it has received -

In Puerperal Fever - this
is one of its most inflamma-
tory kind - as an Emetic^{it} has
been found very useful -

In Plague - Physicians have
said they are very useful in
Plague -

6 Bastard Ipecacuanha.

Grows abundantly in our Coun-
try - is a good Emetic - Its pro-
perties reside exclusively in
its cortical Part - ʒ. ʒss to ʒj
a certain Emetic -

7. Squill - An emetic - di-
 urtic and diaphoretic -
 It has somewhat fallen into dis-
 repute. Dry Squill is much
 more ^{in the same quantity} ~~powerful~~ than is re-
 cent. as a great deal of ~~water~~
 Parts are dyed - in ^{the} ~~water~~
 virtuous under -
 8. Mustard - An Emetic. —

Metallic Emetics -

1. Copper - The one generally
 employed is Sulfate of
 Copper - Simmons recommends
 this preparation as particu-
 larly serviceable in Consumption.
 Dose - ℥ij to ʒij or ʒj - as
 soon as emulsified it is
 thrown up. Warm Water
 should be drunk before taken.
 It is a safe Emetic.

2. Mercury. almost all is

saline preparations of it may
 be made vomit - of it a
 of Turbith Mineral will ex-
 cite vomiting - In Hernia
 Hemorrhoidis, tis as an Emetic
 a very useful medicine -
 used by Messrs Hunter & Bede -
 a Purg should be taken after
 giving this Emetic, as from
 remaining in it Purgs to
 will operate - I generally give
 of it. This dose always acted
 in my hands -

In Sore Throat - I gave
 this Emetic to numbers - it
 not only soon excited vomiting
 but suddenly took about a sal-
 vation - tis a useful Emet.
 when you wish to vomit &
 operate quickly -

3. Zinc - Sulphate of Zinc or

White tutinol - 8. 5 to 3/4. it
 mildly vomits - It is said to
 be particularly useful in evac-
 uating noxious Poisons - but
 therefore in those where the
 action of the stomach is destroyed.
 by a Torpor being induced
 - But when the stomach is
 irritated Ipecacuanha is
 preferable

Lecture 39th. Feb 15 1798.

4. Antimony - Antimony in its
 crude state appears to be inert -
 I have never used it - it has
 an effect on horses - we are
 acquainted with two modes
 of depriving it of its sulphur
 by calcination, it is reduced to
 the state of tutium antimon. ^{or}
 is a violent Emetic - ^{or} it may
 it forms a tutium Corat:
 Antimon: - Another method of ob-
 taining antimon: here is by thion.

ing Antimony: ⁽¹²⁰⁾ to Nitric & Tartar, in
an ignited crucible - Antimony:
is insoluble in water - The
acid of sulphur - converts it into
an oxide - Nitric acid does the
same - Muriatic in time calcines
it - Aq^{ca}. Regia readily calcines
it - Metal - Then needs redum
the metal to a deliquescent salt -
E. Garra: sub: c Antimony: by dis-
tillation has an Antimony-
Green Antimony c Crystals Tartar
Emetic Tartar - or by
Calc Antimony: Green: Tart: - Antimo-
nial Wine, from Marsh Mares
and Antimony: - M. M. Sherwin
by rubbing a Sol: Tartar Emetic
on his skin produced nausea
and vomiting - sweating & in-
crease of Urine - Purging -

Dr. Bradley has written on the exter-
nal use of Tartar Emetic, in

Rheumatism - It acts as tonic -
it produces an Eruption on the
skin - Regulates of Antennae, by
its decomposition Nitric -

Diaphoretic: Antenna: - formed of
Nitric: and Antennae: by Heat - it
is a mild preparation - James's
Painful by Dr. Pearson's anal-
ysis, consists of 1/2 Phosphate of
Lime & Calc of Antennae: - decomposed
in mucous acid forms of
algebraic Painful - a high Re-
putation for its diaphoretic
Properties - is the best prepara-
tion - Lecture 40th Nov 16th. 98

Mean: & Particular Emotions
to some, produce economy.

6. Purgatives

best medicines as in case
the medicinal action - some
of them operate very gently

and such as *Spiraea* more
commonly - *Asar.* Dr. Gullen -

Pungency may be induced other-
wise than by Pungent me-
dicines - as directed *Perhara-*
ton - Cold but, has a remark-
able effect in opening the
Ducts - (under *Falconer's* paper) -

The Situation of *Cathartics* is
remarkable - it affects from
the Stomach to the Rectum -
Acts in Retarding & Drawing off -

The distinction into Mild &
acid - well founded -

Mild Purgatives - under this
Head. Firsts -

1. *Capsica fistularis.*
2. *Tamarind*
3. Neutral Salts - among them
the Phosphate of Soda
4. Unbrimmed Mustard

(123)

Acrid Purgatives.

1. Aloe - 2. Rheubarb. Is a
- 1. Aloe - very good Purga-
tive - it contains a bitter &
astringent property - It is
often according to Dr. Piso is
described - Rheubarb has
been employed to have a per-
meable operation on the Liver.
It has not - Ulcers attended
with Rheubarb, are soon
healed -

3. May Apple is *Podophyllum*
pallidum - called *Indian Root* -
a native of America - much used
by the Indians - I have seen
it in Europe as a Purgative -
It is in Persia a sufficient
dose - 3/4 hanger plentifully -
8. 1/2 May Apple & 8. 1/2 Rheubarb
is a full dose - It does
not like Rheubarb, cause

a costive kind. It appears
to me to be well adapted to
the cure of inflammatory fevers.
It does not appear to give
much. combined with it
forms a very valuable
purgative.

Our medicine without
dissolving matter as soon,
and breaks in smaller do-
ses. It does not vomit
so readily. It does not
give so much. never pre-
sensible to labor & other ac-
cidents of the womb. is used
in Colica Pictoria.

Best time to collect it is in
Sept. or when the fruit is
ripe. and dried in the sun.
It is commended by many

an Emetic. My arguments
generally lead us to be her-
gular and not emetic -

4. Doctor Linker's weed.
The *Triostema fraxinifolia*.
called also bastard Thyme.

5. Purging Root. The
asclepias decumbens of
Linnaeus - called Flux Root -
It is a mild purgative & Dr.
takes on it when down from
fever 4th to 3rd -

6. *Polygala senega* - both
purgative - emetic - dentin
and deaphantia -

Lecture 41^{mo} Feby 20th 1798.

7. *Sialagoga*. They are either
external or internal -

The External are such as can
act, and irritate the interior

surface of the mouth - you
can see that they by increa-
sing the flow of saliva, and
use of saliva in operation of & Head &
Jaws -

1. Anthrax Perithia - the
root chewed is chewed -

2. Lanthocodium or Tooth
ach Lin

3. Masterwort

4. Bone Rind Root

Internal Scallagages -

1. Mercury - or Quicksilver -

it is volatile - very poisonous -
& blind - boils to a great degree
at 203° , freeze the Mercury -

Mercury soon kills Insects -

Agitation for a length of Time
will reduce it to a Powder -

This is merely a decoction, not
a decomposition - Mercury is
a simple Body - and not an

earthly substance as supposed -
Mercury heated in the air is

is converted into a red oxide
 of Mercury, called Merc: Precip:
 This is heated again in closed
 vessels, the O is reduced - Mer-
 cury is not altered in O open
 air - Mercury distilled in Wa-
 ter, converts the water to a
 Black Color - on simple agita-
 tion - it produces a division of
 the Mercury - Animals covered
 in it die and reduce the O -
 This mercurial water is active

a Calx of O from sulphuric
 acid, being put in Water, is
 converted into Turbith Mineral.
 This is very valuable - is very
 manageable - and safe -

Nitric Acid reduces O to an
 oxide - and disengages nitrous
 gas. - This is O Nitrate of Mercury -
 is corrosive -

The alkalis - Earths & succinate.

Mercury from their solution -
 stannic acid. unites with the
 salt of Mercury & forms a white
 Precipitate - or SnO_2 . The oxy-
 genated acid unites with oxygen and
 forms Corrosive sublimate -

The Corros. sublim. is a neutral
 salt - it is a white powder - its
 taste is strong - This salt tri-
 turated with crude Mercury
 and sublimed, forms Calomel -
 There is no intermediate state
 between Corros. sublim. & Calomel -

Mercury 1 Part - Sulphur 9 Parts
 by trituration forms Otho's Mi-
 neral - Sumner of G. to throat has
 been advantageously employed
 in Angina -

Mr. Plenk recommends a Pre-
 paration of Green: Arsenic: & G. as
 an excellent Remedy in Lues Venerea
 It does not appear to me as good

as some of the other Preparations
of Mercury -

The Preparation of Mercury
with of mercurial air, as I know
is the most valuable - I have
been in the habit of using it
always in Less quantity - $\frac{1}{4}$,
 $\frac{1}{2}$ & even $\frac{1}{2}$; I have adminis-
tered - particularly when the skin
is affected - The Preparations of
I. I have seen induce Paralysis -

Calomel - as a collimating or
alterative Property is truly va-
luable - Opium should be com-
bined with it most certainly -

A solution of Corrosive Sublimation
applied to the ^{Palm of} Hands and soles
of the Feet salivates speedily - it
deserves attention -



Lecture 42^a Feb'y 22^a 98.

Mode of Mercury's Operation
is described differently by dif-
ferent authors - Dr. Parry sup-
posed it acted mechanically
by its specific gravity -
Dr. Cullen confutes this opi-
nion - he considers it as an
universal aperient, in promo-
ting Excretions, without alter-
ing the state of the fluids, any
more than the Blood acts on
an inflammatory disease -
Dr. Parry, says Cullen, supposes
Mercury acts by dividing the
coherence of the fluids - Cullen de-
nies it, and on the contrary af-
firms its Operation to be that of a
stimulus, and in no way does
it show this, more than in its
action on the salivary Glands -
The Fetus of the Quack, says Cullen

has been ascribed to a truer-
cent state of the Saliva; but we
have no proofs of this. he also
considers it to act particularly
on the Throat and Mouth -
Mercury has been supposed
to possess antiodotic properties
to the venereal virus - The proof
of this (tho not conclusive) is that
it cures readily; local venereal
affections by local application.

Dr. Cullen ascribes Mercury
acts by throwing off the poison
from the Body - 'tis not the
cause, for we know that we
can cure the disease by I.
without inducing salivation -
and we also know that other
powerful Evacuants will not cure.

Mr. Hunter - supposes I. dis-
trays the venereal Poison, by
setting up a new action, displac-

rent and greater than the venereal action - and that this is either the mercurial action, or an action different from either the venereal or mercurial action - Chancres are cured by Mercurials, different from mercurial Preparations - I have found the Nitrate of Silver, upon Evaporation preferable to any mercurial or any other application to venereal Chancres - The Pain if violent may be immediately removed ^{water} entirely by putting a little on the Parts -

Lecture 43rd July 26th 98 -

The antedote Properties of Mercury is extremely plausible - Hunter has raised very great objections to it, - as it cures other diseases - Mr. Hunter's Opinion more generally adopted in Britain - I think it best -

Comments on M. Bell on Lues Venere
 Poisons are such as change
 the system from a healthy to
 a morbid state - These Poisons
 may be applied by Vapor,
 Contact and Wound. They are
 animal and vegetable - For
 a Poison to take Effect, the Body
 must be in a state suscepti-
 ble to such Impression -

This susceptibility is confined
 to particular Species - This has
 I think been too generally a-
 scribed, for I believe diseases
 are communicated to different
 Species of animals - Absorption
 takes place, in order to produce
 Effects - The Effects of all Poisons
 appear at ^{at} certain Periods after
 application - M. Adams on Poisons
 is a valuable work - You will
 recollect Lent: that you may

give Mercury to so great a
 degree as not only to do no
 good but actually do harm.
 Disperse & Ulcer will spread
 and destroy your Patients.
 Now you are to lay aside your
 Mercury, which now produces
 an Irritation, and substitute
 other Stimuli - Dr. Monro used
 to be very successful in curing
 Discharge of, when I had been
 used a length of time to no Effect.
 by laying aside the Mercury, ^{or}
 spreading such Ulcers, and giving
 his Patients Bark and Wine. ^{Quina} &c.
 When such Ulcers have not cal-
 led for Edges, we may expect the
 Constitution capable of removing
 such Phagadene; and if contrary
 when callousity does exist we
 may conclude the Constitution
 incapable to remove the Ulcer -

Mercury appears to be a re-
medy we are authorised to use
in all cases of ulcers - however
where no Painlessity exists I sh^d.
think we should be very cau-
tious in using it - and use
the Milder as both &

Lecture 44th - July 27/1879

Mercury, when a recent
cut produces an Ulcer - cal-
led by Mr. Hunter the Mercur-
ial Ulcer - It is said Mer-
cury will cure the American Sym-
ptom of Yaws, but in curing
it, it only transfers the dis-
ease from the Skin to the
Bones, thus producing violent
soreness, pain & Death -

Mercury induces a form called
the Mercurial Fever - Mercury
induces Swelled Glands,

Manna, *Eutla duna* - Potently
 Dextility &c. Nitric Acid has been
 found by M. Scot of Norway
 E. India, and M. McLean of Cal-
 cutta, readily to induce a sali-
 nation. 100 drops in a Quart of
 water was given in the course
 of the day. I have found Nitric
 given to Children has induc-
 ed a long month, recent.
 -ing &c. -

In Syphilis - I need say
 but little. I will only request
 you will try I. Corros: sub:
 in small Quantities with
 Opium, and I am sure you
 will not be disappointed -

In Gonorrhoea. Calomel
 internised with Em: acidi
 and a little Opium I have
 found the best Injection -

In Cancer. I am certain
with Mr. Adams that I will
do harm - Dr. Wilkenson speaks of
large ⁱⁿ & Cancer. Lulym. -
In Scrophula. I believe it

has generally ^{been} found hurtful.
Dark and Hemlock are teeth.

In Flea, it is well known.

In Worms. valuable. They
a Lumbricals. Arcandis & Li-
nea. In the Lumbricals and
Linna I is to be only used.

& Cancer. Sub: is good in Linna.

In Fevers. I was used in
Intermittents as early as 1613 -
by Sir Theodore Mayerne -
Doctor Chuskehn has found it
of great service in Yellow fever -
From the observations of some
authors, it is important to remem-
ber, that saturation appears to

be with much more diffi-
 culty induced by the use of
 in warm than cold climates -
 Mercury - In these climates
 I entreat you to
 give Mercury cautiously - for
 its effects are sometimes bad -
 as soon as the Icterus which
 is peculiar to it is induced, you
 can desist from its use -

Lecture 45th. March 1st 1879.

In Dysentery - Dr. Clark is
 the first who introduced it
 in this climate - He was for
 a time doubtful whether it
 suited its nature to its im-
 position or mucous Property -
 Experience however convinced
 him it was owing to its mu-
 cinal property - Different Pro-
 portions of Calomel are required

to affect the Mucous in dys-
 enteric Contributions - Opium sh^d
 be combined to prevent
 Mercury from gripping - He
 used this medicine so as
 to affect 5 months in acute
 dysentery - In 5 Chronic dys-
 sentery a salivation should
 be secured - Mercury should
 be used in proportion to 5
 vigor of 5 disease - Wm^{T. &}
 has been used with good Effect
 solution of some of 5 mer-
 curial salts rubbed in 5 Palms
 of the hands. I have used with
 5 best Effects to salivate -

I have been more successful
 in dysentery since I have used
 Mercury - The Expectation is ex-
 tremely nice -

In Fort - Mercury has been

und by Mr. Barb. - I have
found the propriety of ex-
tending a degree of occlusion
in Cont. - continued to G. Sence.
In Rheumatism - und wth
good Effects -

Hydrochelys *terrestris*
This mussel is seldom in con-
sequence of being then cut
hard -

In *Sclanus*. it has been
found good

In *Hydrarthrosis*. has been
cured by Fe .

In Fetta Liuna - a mar-
cinal snuff of Fetta Mine
ral & apatite - it is
Blinding -

ex: Blowing -
In Calica Pretorium - Dr.
Clutterbush has given a value
able Paper on its use here -

The Lead in this disease has
 been a Factor I if muscular
 Fibre - a retention of
 I have taken place - and fla-
 tuosity is excited - Cluttering.

Mercury excites entirely a dif-
 ferent action. It has therefore
 been most successfully used
 by this Author -

May Lead be employed to
 destroy the bad Effects of Mercury.

Lead - its preparation I am cer-
 tain may be successfully used
 in many diseases - Mr. Hunter
 gave Lead in Litanes &c -

I used of Lead in intestinal he-
 morrhage - I have given it to
 a great Length in P. H. in - In
 an intestinal hemorrhage
 I gave ℥. iij. & 4. very half
 hour - He also took as much
 as 44 grains in four or five

1. Umbelliferous Plants.

1. Common Parsley. They
give relief in dysury.

2. Alliacae -

1. Onion - 2. Garlic - 3

Leek - The onion is used as
expectorant and emetic in
Amen - Dr. Sydenham speaks
highly of Garlic as demulcent -
The Leek, is of late used with
great advantage in cases
of Trachoma, in Europe - The
Peasants of Leamington use a hand-
full in a Quart of hot Water
to be drunk in 7 days -

3. Siliquosae -

1. Common Horseradish -
it is a stimulant - excites
and increases urine -

2. Other Diuretics

Pule: Dandelion - or endive.
compound of Ipecac: & Opium

It is demerita as well as di-
aphoretic -

2. Little of all kind, I be-
lieve are Anodyne - it is di-
uretic -

3. Squill - often acts as
a diuretic - $\text{℥} \text{ iij}$ to ℥ for a
dose - when used - when dried
they are stronger, $\text{℥} \text{ iij}$ to ℥ is
sufficient for a diuretic - and
in Dropsy - Dr. Home admin-
isters $\text{℥} \text{ iij}$ as frequently as
to act as a diuretic. He mix-
es it with Rube Bredon $\text{℥} \text{ i}$ -
it helps also, and increases if
used - Dr. Wagner 50 ℥ ago

This medicine of some
way to act in moderate
Emesis or vomiting - I give it in
 $\text{℥} \text{ iij}$ every afternoon, it dimi-
nishes is useful in Anasarca &
moderate vomiting - The
quantity of drink should be very

(145.)

much increased as well as
equal as all other diuretics -
Mercury has been combined with
equal - as Dr. Gannor. Sublimat. -

4. Meadow Saffron. an emetic
if too infused in vinegar
and honey, has been recom-
mended as diuretic by Doctor
Storch -

5. Common Adulchoke, has
acquired some reputation as
diuretic - The juice of it is taken
from 3j to 3j. in dis-
Dr. Monro combined it with
some Radish. Mustard. Uni-
ver. Perrier &c is dropped -
Dr. Sarsaparilla uses it -

6. Black Hellebore, an Ex-
tract, has been used in France
as a diuretic. and a Purgative -
They compare the Dosis of
Dr. Baker's Laxative Pills -

7. Madder - its emmenagogue

Effects are considerable - and from
this I can rely on authors who
say the same -

8. Winter Cherry - has been
used -

Dalmanium or Night Shade

9. Root of *Asarum*, an active
plant -

10. *Saururus* or *Juniperus* *Dalman*
it is active it readily produ-
ces abortion -

11. *Dalmanium* *Medicinalis* or
dentata - it produces Stomach-

12. *Lobelia* *lychnis* -

13. *Polygala* *Senega* - or

Senega Snake Root - its sen-

sible qualities - its taste is

somewhat acid - it excites

cough - it increases a copious

flow of saliva - tickles the

throat - it is emetic, diapho-

retic, cathartic. expectorant

Doctor Lemnart used it in
case of Snake Bite -

In Pleurisy - it is used - also
in Rheumatism - Dropsy &
Gout - Mr. Dolearb a French
Vintner used it in Dropsy - also
Jussieu used it - Dr. Percival
used it - ^{attention of} The Physicians of
this City have ^{lately} been turned to
it in Cynanche Trachealis, in
consequence of a communica-
tion from Doctor Archer of
Maryland - There is a Cynan-
ce Bronchialis which I think
is very common - ^{promises} here it to be
certainly valuable -

In Chronic Head-ache this Me-
dicine has been given in 2j
two or three times a day -
Bernander wrote on this
Plant -

(1486)

Lecture 48th March 9th 98.

14. Digitalis - Foxglove - not
a native of our country. Under
Dr. Wethering's work - every
part of the plant appears to have
the same effects -
The leaves however are the
most valuable - In large doses,
it produces nausea, vom-
iting, depression of sight - and
diminution of pulse - in-
crease of urine - demonstrates
the frequency of the Pulse -
it induces dyspnea - The
flow of urine sometimes
does not appear until three
or four days after its pro-
per exhibition - Dr. Wethering
found it necessary to induce
sweat, to act as diuretic -
when it acts on the Pulse, Kid-

nery. Stomach or Bowels
 the medicine should be o-
 mitted - when it hangs to
 does no good - when they
 take it they should drink
 a quantity of fluids - Dr. Wi-
 thering has found, Brandy,
 Mint Tea and small doses
 of Opium necessary to remove
 its effects - but he shows more
 confidence in Opiates - Dr.
 Withering gives it in Powder
 from half a grain to three
 grains for a dose - Dr.
 Darnley uses a saturated Linc-
 turn of 3 Leaves in rectified
 spirit - Dr. Withering says it
 seldom succeeds in those of the
 sanguineous temperament -
 & the Pills in some cases - we
 have little to expect from

This medicine - an I contrary
 when there is a halled Counte.
 name - soft abdomen - sitting
 Legs & we have much to ex-
 pect from Digitalis - Dr. Witte-
 ring says: Digitalis sometimes
 will not act as diuretic - I will
 & will sometimes cure after
 Digitalis has failed - It may be
 used with advantage in all
 kinds of Dropsy except I in-
 cysted - In Hydrops it is
 most careful - Doctor Darwin
 should be attended to on the Ex-
 tinction of this medicine -
 It appears to me well adapted to
 I cure of Dropsy that succeeds
 our Intermittents &c. Doctor
 Darwin thinks it is more useful
 in Dropsy from Intoxication -
 In Hemorrhage, it has been re-
 commended -

In Mania also it has been
used with success - Dr. Fox
of England cured a case of
Insanity with this medicine.

I find it difficult to make
up my mind on its Operation
of this medicine; if it were not
for this medicine I should very
much doubt the existence of a
Lactation - Perhaps it will be
found in its first Operation to
be a stimulant - a Case occurred
in Edinburgh, where defecation
ceased inflammation from this
medicine -

15. *Gambogia* - with Gyna-
tals of Tartar, it makes a useful
milk & is a good medicine.

27

(152)

Finis N. 2 ~

(vide N. 3)

" " "

